



Customer	Rox Klimatechnik	End customer	Mc Donald´s DK - Rødovre
Street	Langenbacher Str. 25	Street	
ZIP code / City	57586 Weitefeld	ZIP code / City	
Phone	+49 2743 807 0	Phone	
Fax	+49 2743 807 153	Fax	
E-mail	info@rox-online.de	E-mail	
Project number	4614a	<u>Terminal strips</u>	<u>Wire colors</u>
Customer number	7559	X01 = in front of main switch	primary current
Commission	Mc Donald´s DK - Rødovre	X1 = primary current	230V AC / 230V/0
Project description	ventilation	X2 = control unit 230V	24V AC / 24V/0
Created on	02.09.2025	X3 = low voltage	24V+ / 24V -
power supply	bottom	X4 = analog signals	external voltage
door hinges	left and right	X5 = signal exchange with external unit	DDC
Cabinet size		X6 = bus line	measuring line
		X7 = external voltage	neutral conductor
		X8 = ex area	others
Edit date	16.09.2025	<u>EN regulations</u>	<u>VDE</u>
by (short name)	D. Preuß	HD 60364	VDE 0100
Number of pages	58	EN 61439-1	VDE 0660
			<u>International IEC</u>
			IEC 60364
			IEC 61439-1
		Before commissioning:	
		Compare the circuit diagram with the data plates and on-site terminal markings,	
		as well as the setting values of the motor protection switches.	

pnlagenbezeichnung	component type	power in kW	electricity in A	voltage in V	rotation in U/min
supply air fan kitchen	GKHM 355-CII.118.6FF IE Gen3	4,44	6,80	400	3650
exhaust fan kitchen		1,55	3,00	400	1370
exhaust fan dishes		0,14	0,89	230	1338
heatpump 1 kitchen	DVM-S, AM040DXMDNG/EU	max 3,95	max 16,10	400	----
heatpump 2 kitchen	DVM-S, AM040DXMDNG/EU	max 3,95	max 16,10	400	----
supply air fan lobby	GKHM 355-CII.118.6FF IE Gen3	4,44	6,80	400	3650
exhaust fan lobby	GKHM 355-CII.118.6FF IE Gen3	4,44	6,80	400	3650
heatpump 1 lobby	DVM-S, AM040DXMDNG/EU	max 3,95	max 16,10	400	----
heatpump 2 lobby	DVM-S, AM040DXMDNG/EU	max 3,95	max 16,10	400	----
air cooling devices		max 23,00	max 60,00	230/400	----
others kitchen		2,00	4,00	400	
others lobby		2,00	4,00	400	
total		58	156,00	400	

# table of contents

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page	page designation	page supplementary field	date	processed by	X
=RLT_1/1	titel page		10.09.2025	daniel.preuss	X
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=RLT_1/2	table of contents : =RLT_1/1 - =RLT_1/50		16.09.2025	daniel.preuss	X
=RLT_1/2.a	table of contents : =RLT_1/51 - =SSA/1		16.09.2025	daniel.preuss	X
=RLT_1/3	feed in		10.09.2025	daniel.preuss	
=RLT_1/4	phase monitoring		10.09.2025	daniel.preuss	
=RLT_1/5	control voltage 230V AC and 24V DC		16.09.2025	daniel.preuss	
=RLT_1/7	fault reset		16.09.2025	daniel.preuss	
=RLT_1/9	safety line		16.09.2025	daniel.preuss	
=RLT_1/10	air handling unit kitchen		10.09.2025	daniel.preuss	
=RLT_1/11	supply air fan kitchen		10.09.2025	daniel.preuss	
=RLT_1/13	exhaust fan kitchen		15.09.2025	daniel.preuss	
=RLT_1/14	exhaust fan dishes		16.09.2025	daniel.preuss	
=RLT_1/16	flap drives kitchen		16.09.2025	daniel.preuss	
=RLT_1/17	fire dampers		16.09.2025	daniel.preuss	
=RLT_1/18	fire dampers		16.09.2025	daniel.preuss	
=RLT_1/19	antifreeze thermostat		16.09.2025	daniel.preuss	
=RLT_1/20	heating pump heater valve kitchen		15.09.2025	daniel.preuss	
=RLT_1/21	heatpump 1 kitchen		15.09.2025	daniel.preuss	
=RLT_1/22	heatpump 2 kitchen		10.09.2025	daniel.preuss	
=RLT_1/23	heatpump 1 kitchen indoor unit		15.09.2025	daniel.preuss	
=RLT_1/24	heatpump 2 kitchen indoor unit		10.09.2025	daniel.preuss	
=RLT_1/30	air handling unit lobby		10.09.2025	daniel.preuss	
=RLT_1/31	supply air fan lobby		10.09.2025	daniel.preuss	
=RLT_1/32	exhaust fan lobby		10.09.2025	daniel.preuss	
=RLT_1/36	flap drives lobby		10.09.2025	daniel.preuss	
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=RLT_1/38	gas detector		10.09.2025	daniel.preuss	
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=RLT_1/42	heatpump 2 lobby		10.09.2025	daniel.preuss	
=RLT_1/43	heatpump 1 lobby indoor unit		10.09.2025	daniel.preuss	
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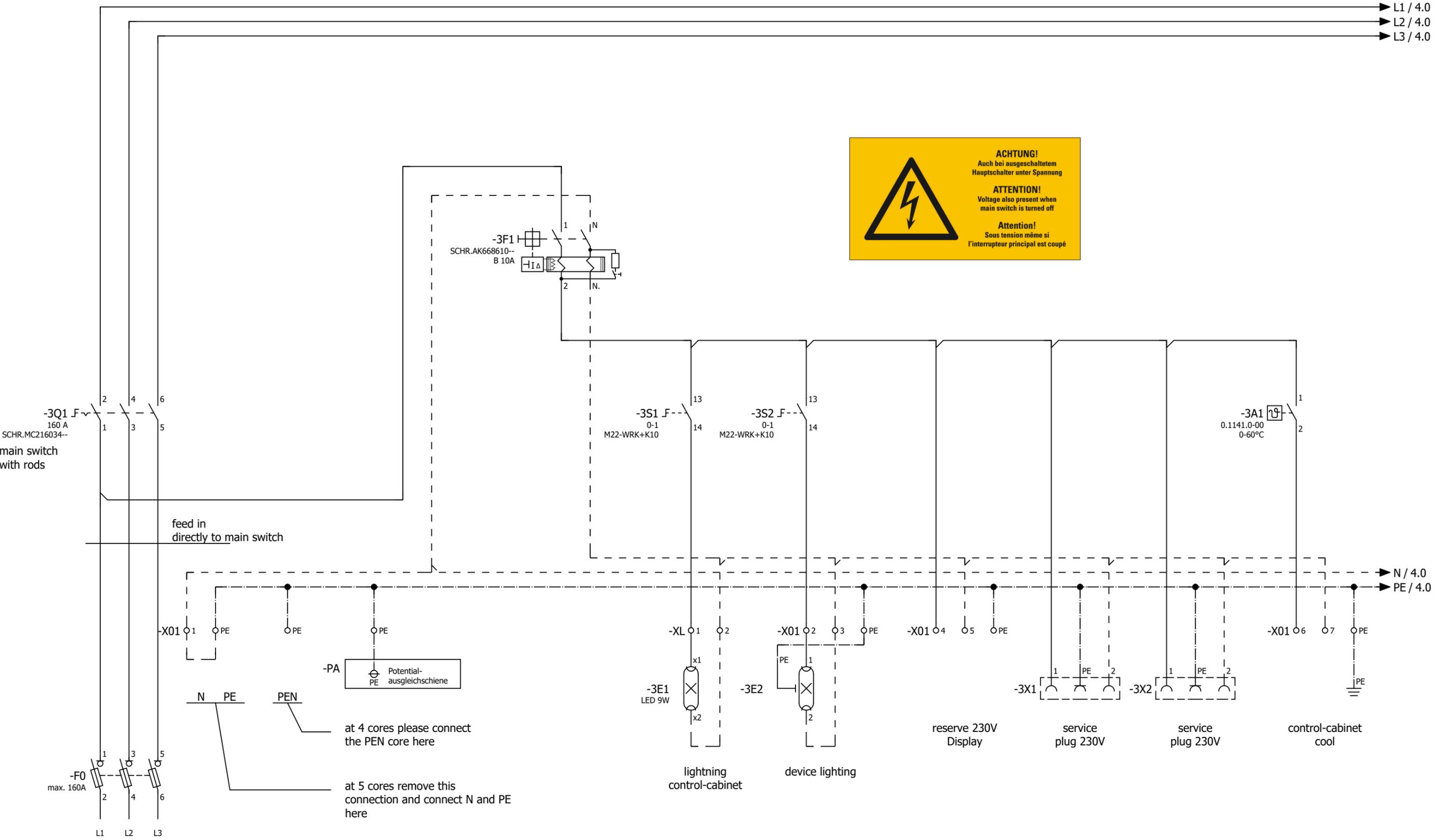
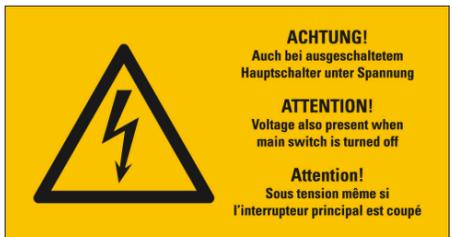
1a

2.a

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			Bearb.	daniel.preuss							Blatt	3/ 58
			Gepr	M. Wagner								
Änderung	Datum	Name	Urspr		Ersatz von	Ersetzt durch						

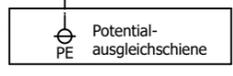
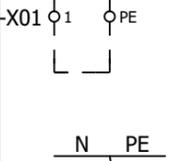


L1 / 4.0  
L2 / 4.0  
L3 / 4.0



-3Q1 F 160 A  
SCHR.MC216034--  
main switch  
with rods

feed in  
directly to main switch



at 4 cores please connect  
the PEN core here

at 5 cores remove this  
connection and connect N and PE  
here

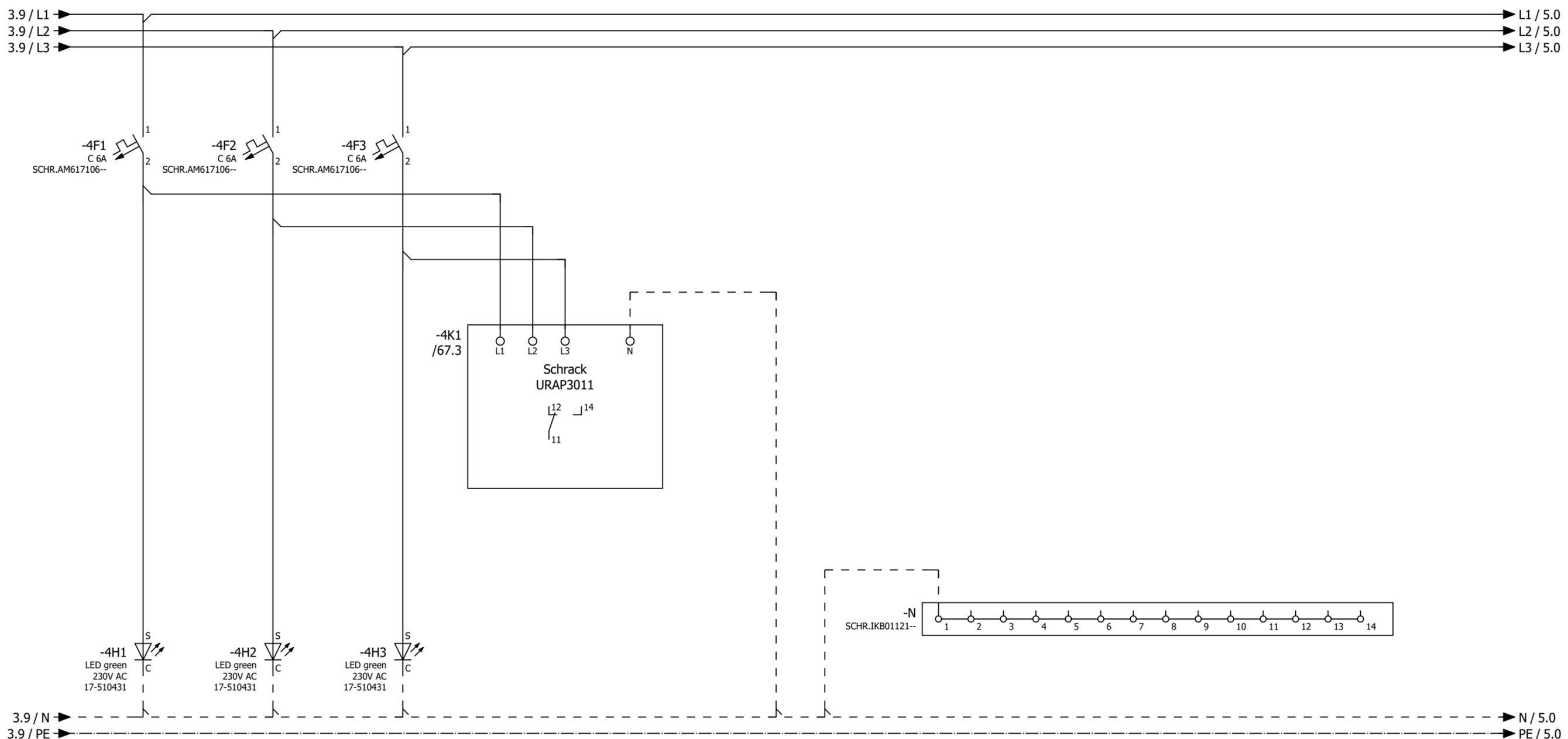
P = ca. 58	kW
I = ca. 156	A
U = 400	V
F = 50	Hz

N / 4.0  
PE / 4.0

2.a

4

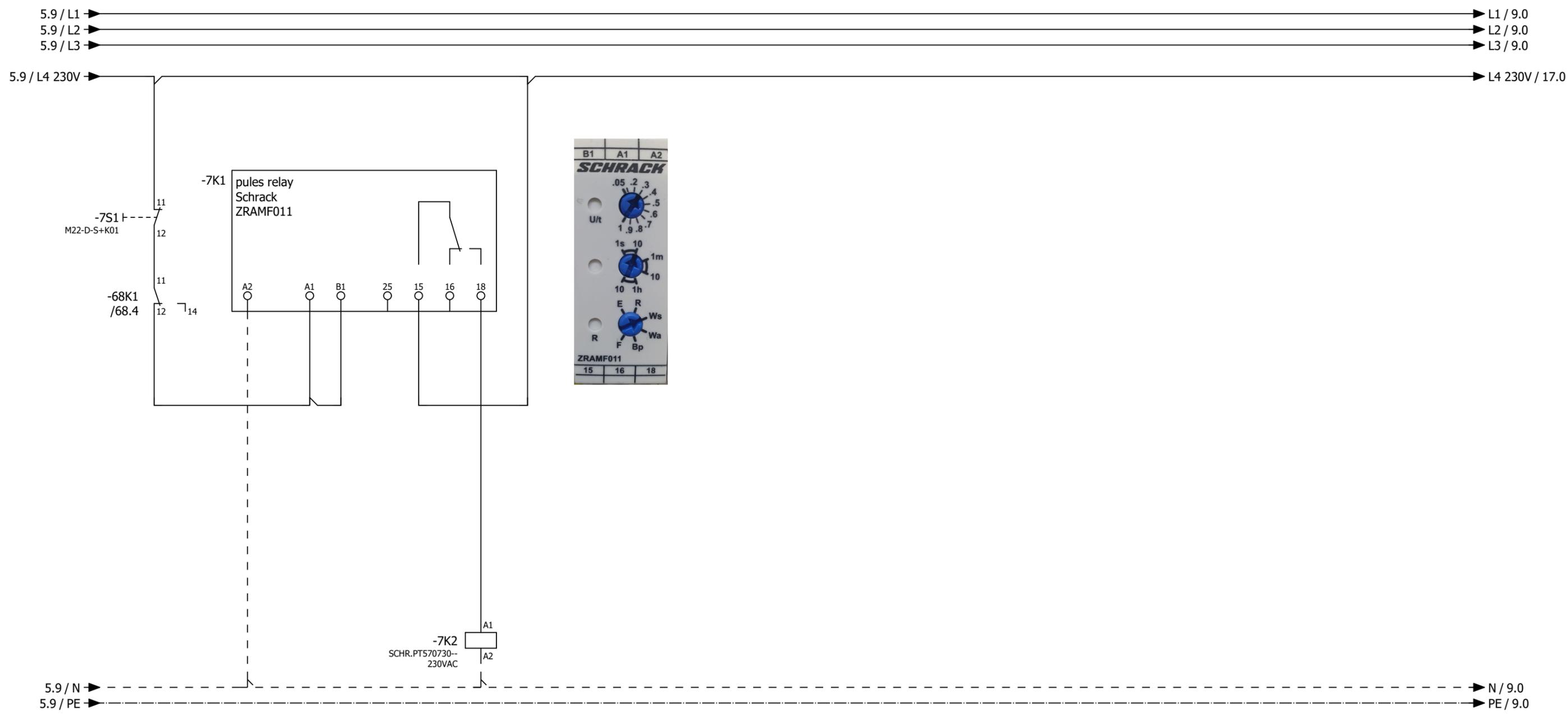
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edited	daniel.preuss	ventilation				
checked	M. Wagner	replaced by			custom no: 7559	4614a
change	date	name	origin			page 5/ 58



H1 = phase L1  
 H2 = phase L2  
 H3 = phase L3

			date	10.09.2025	Mc Donald's DK - Rødovre				= RLT_1	
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			checked	M. Wagner			custom no: 7559	4614a		page 6/ 58
change	date	name	origin		replacement for	replaced by				





- 14 ↗ 11 /9.4
- 24 ↗
- 22 ↗ 21 /19.4
- 34 ↗
- 32 ↗ 31
- 44 ↗
- 42 ↗ 41 /67.2

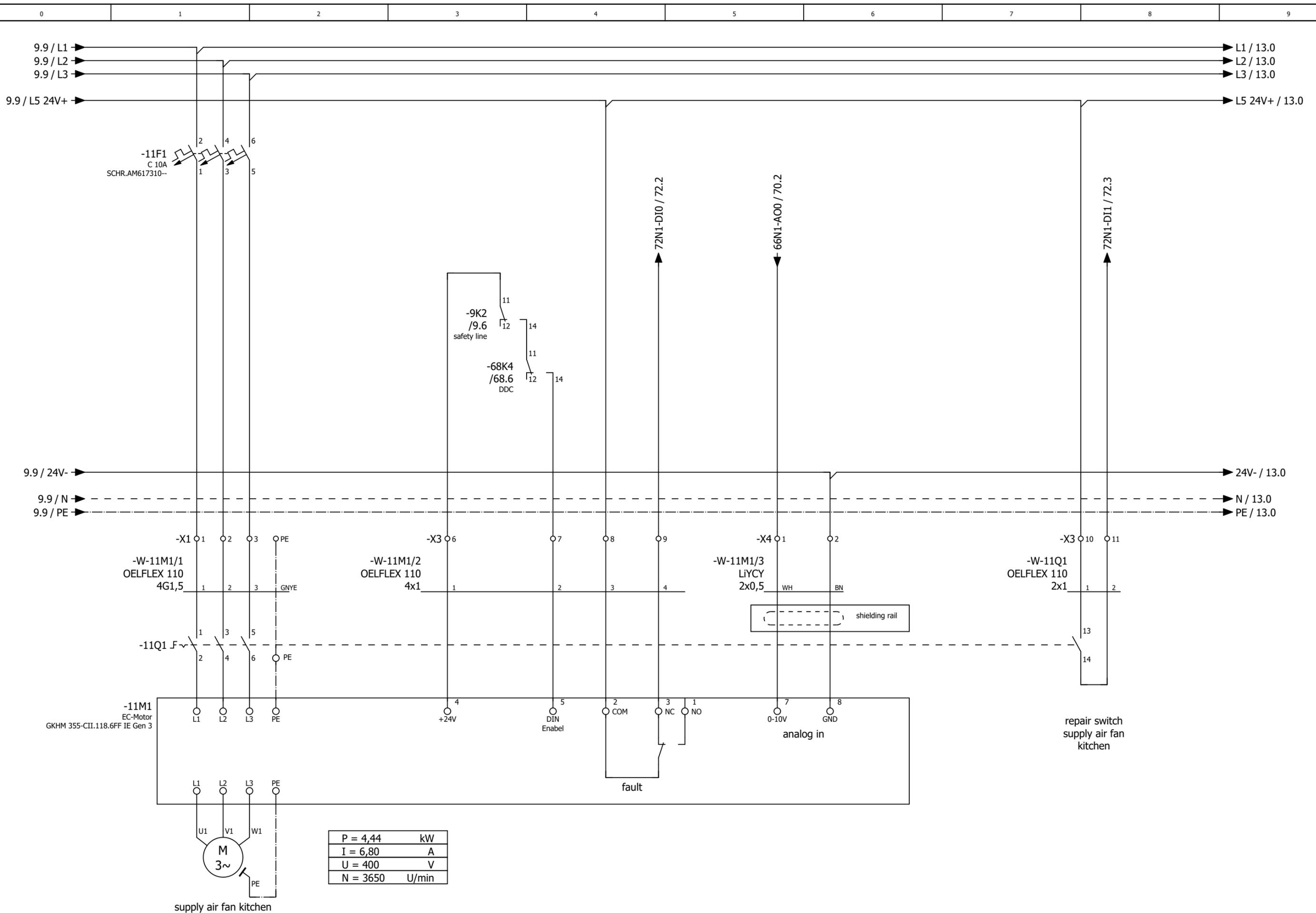
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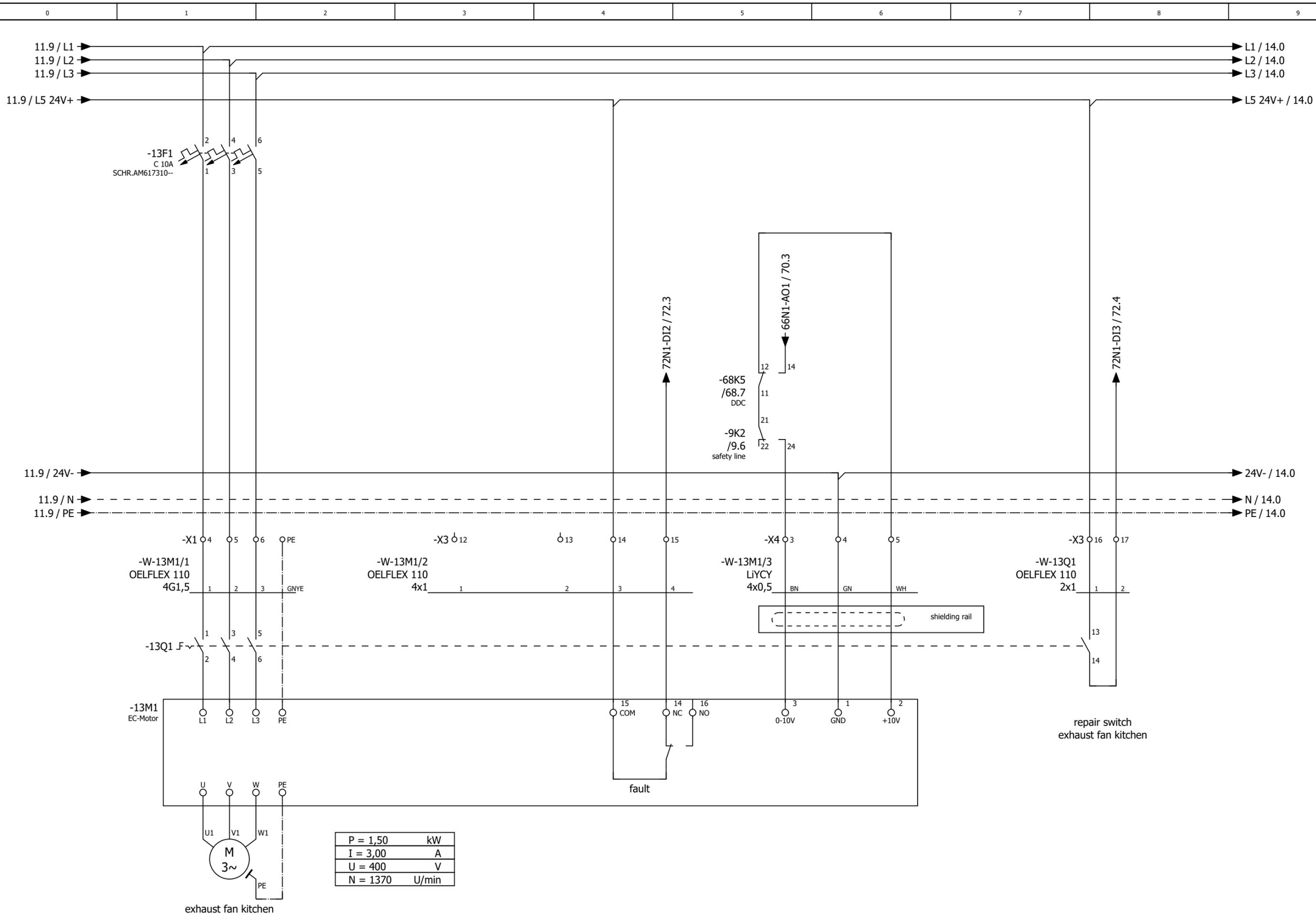


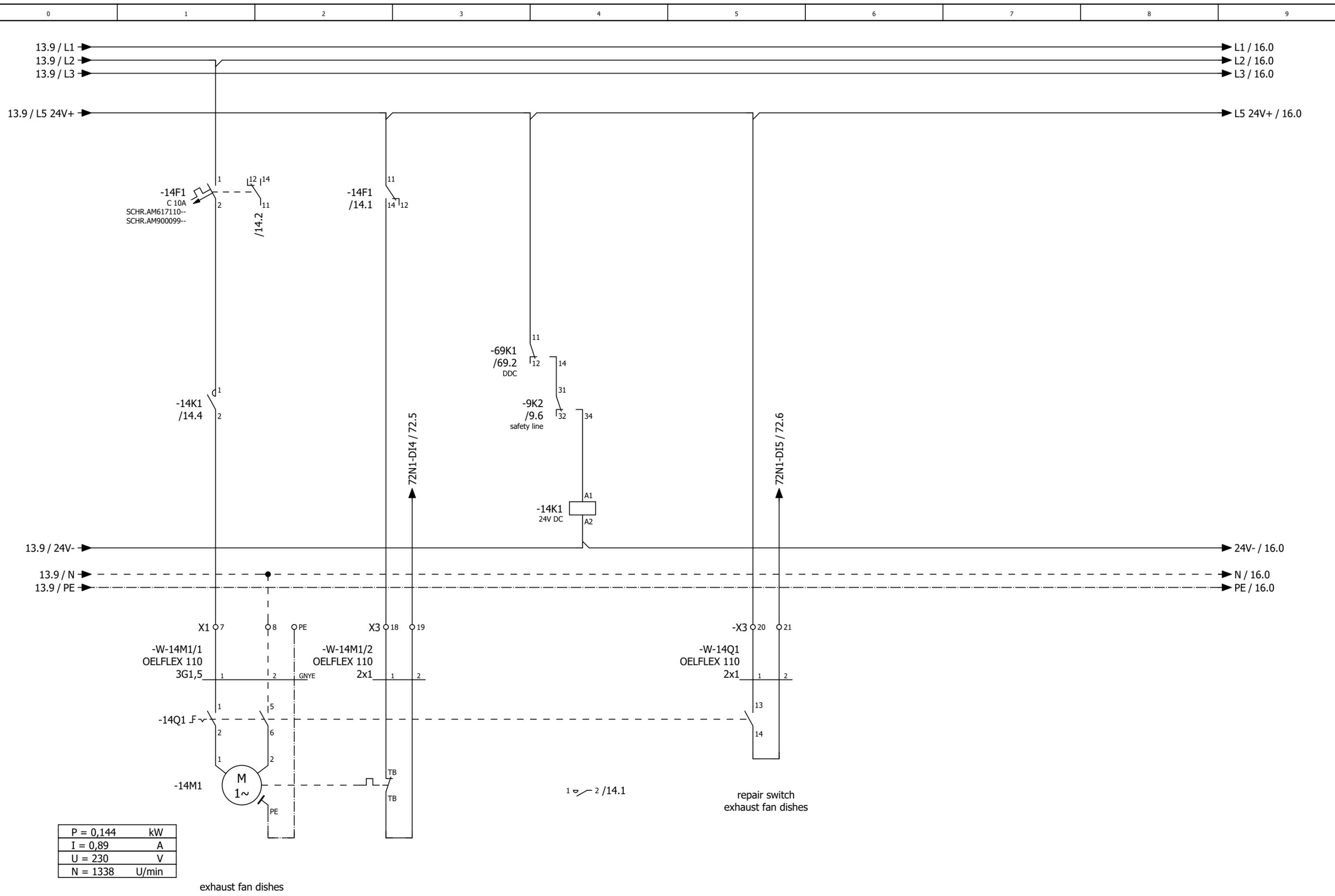
# AHU KITCHEN

				Mc Donald´s DK - Rødovre			air handling unit kitchen		= RLT_1	page 10
				ventilation					+	page 10/ 58
change	date	name	origin	replacement for	replaced by		custom no: 7559	4614a		



				date	10.09.2025	Mc Donald's DK - Rødovre ventilation		supply air fan kitchen		= RLT_1	
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				checked	M. Wagner					page 11/ 58	
change	date	name	origin	replacement for	replaced by			custom no: 7559	4614a		





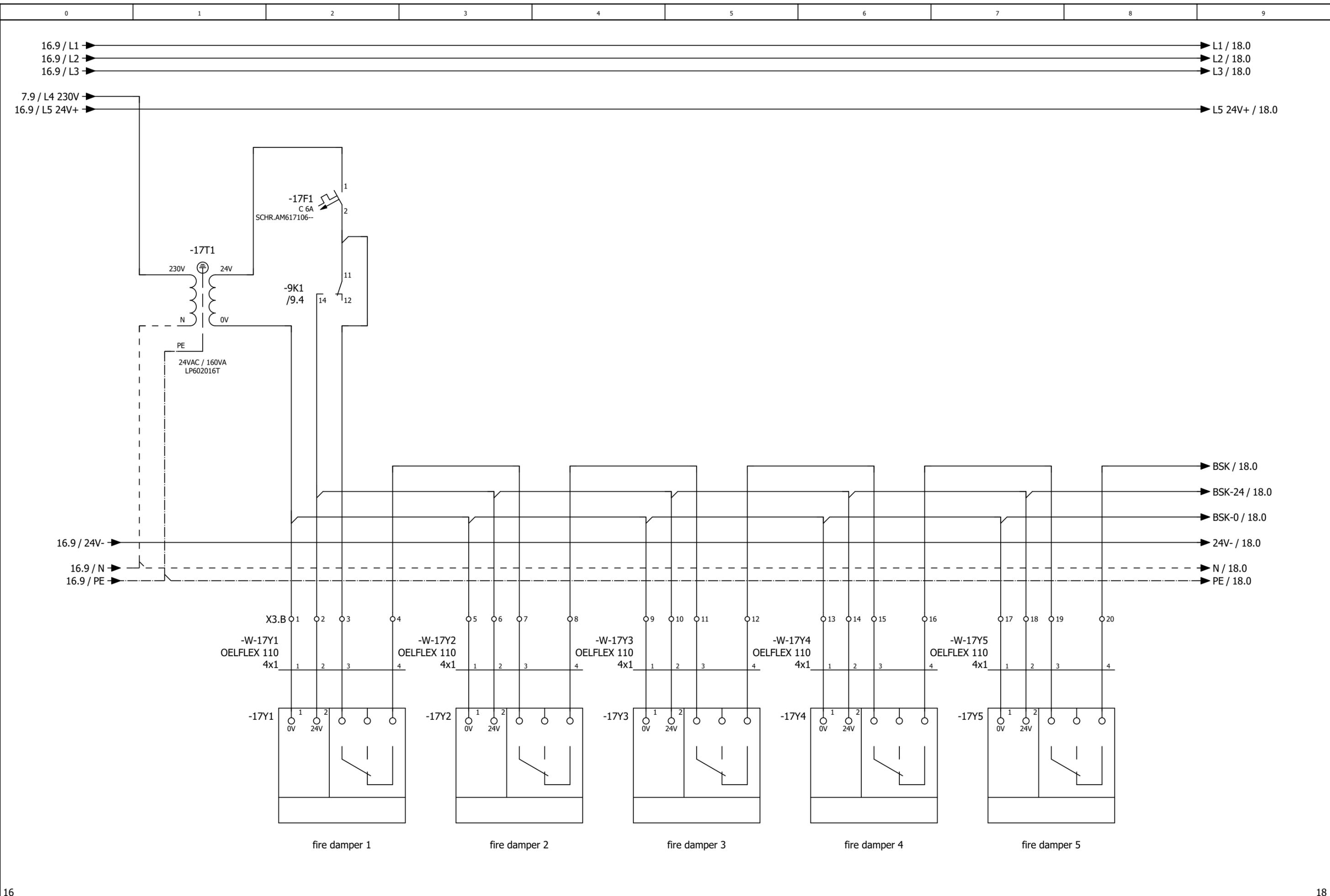
P = 0,144	kW
I = 0,89	A
U = 230	V
N = 1338	U/min

exhaust fan dishes

repair switch  
exhaust fan dishes

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change	date	name	origin	replacement for				custom no: 7561	4614a			



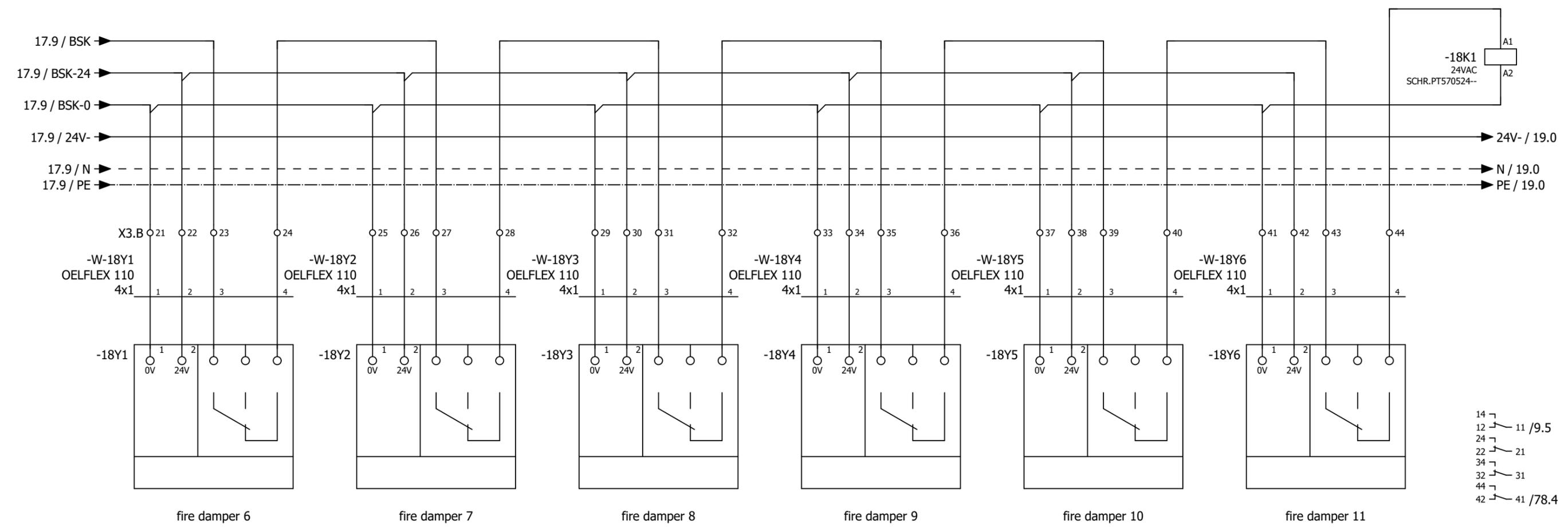
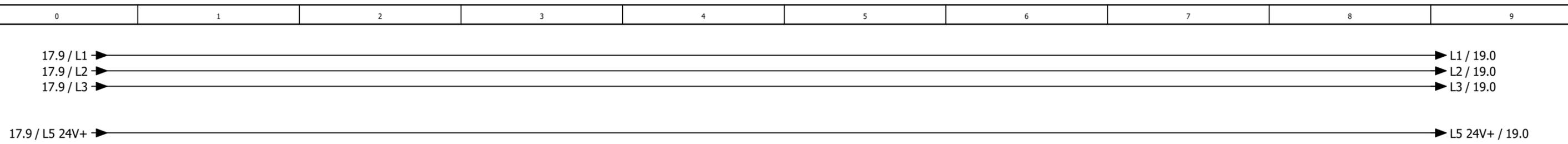


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change	date	name	origin	replaced by		custom no: 7559		4614a	



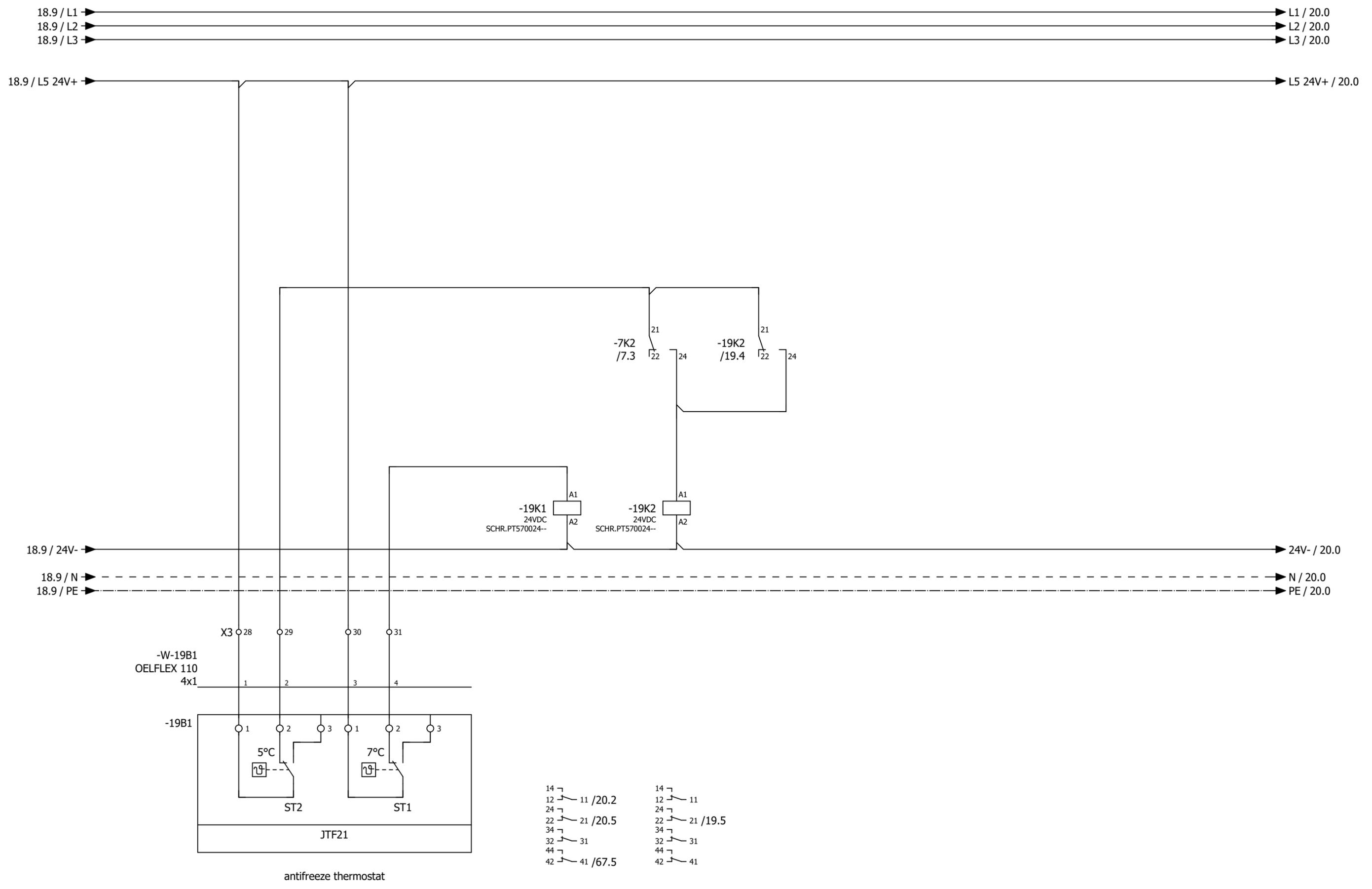
fire dampers

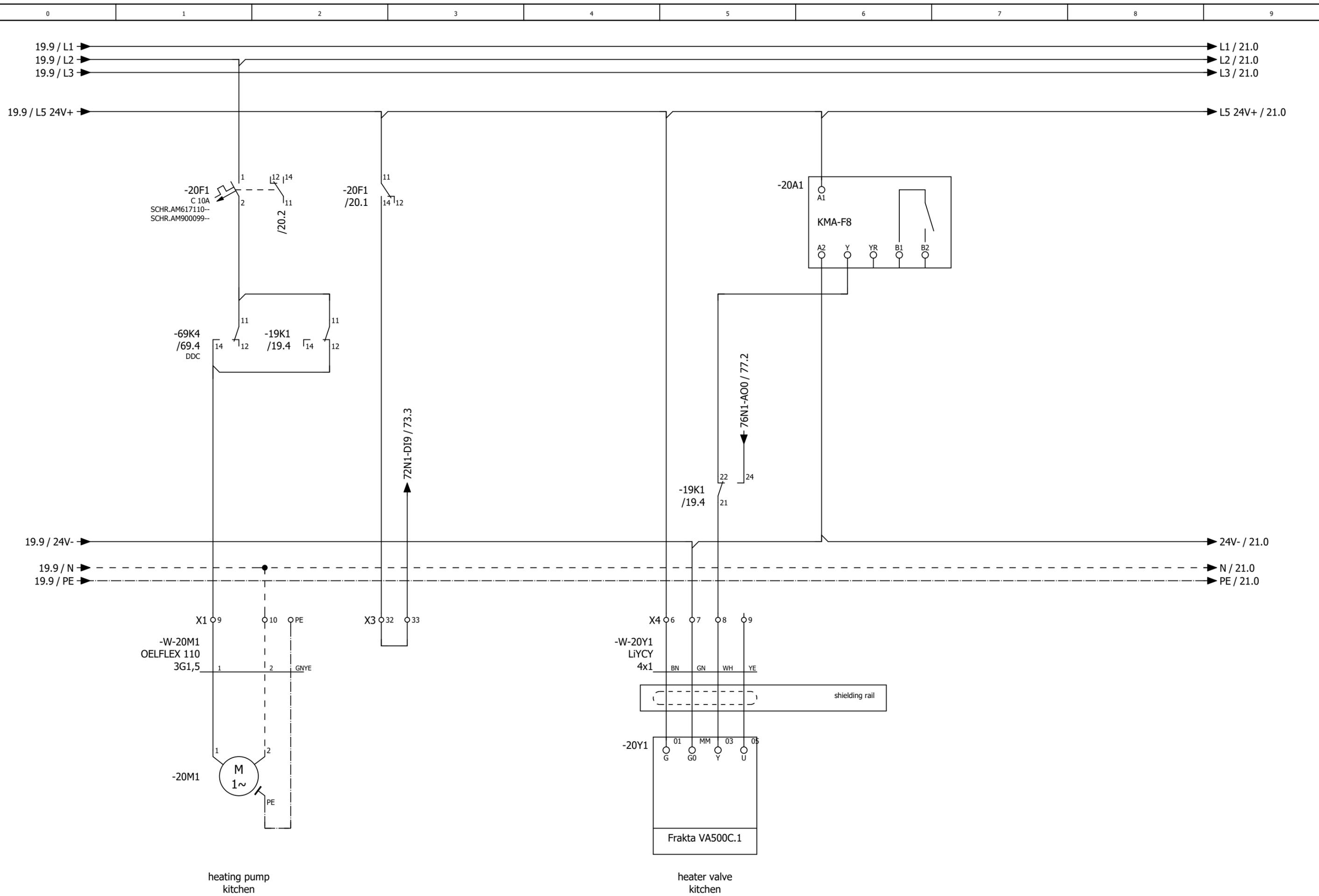
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										page	16/ 58





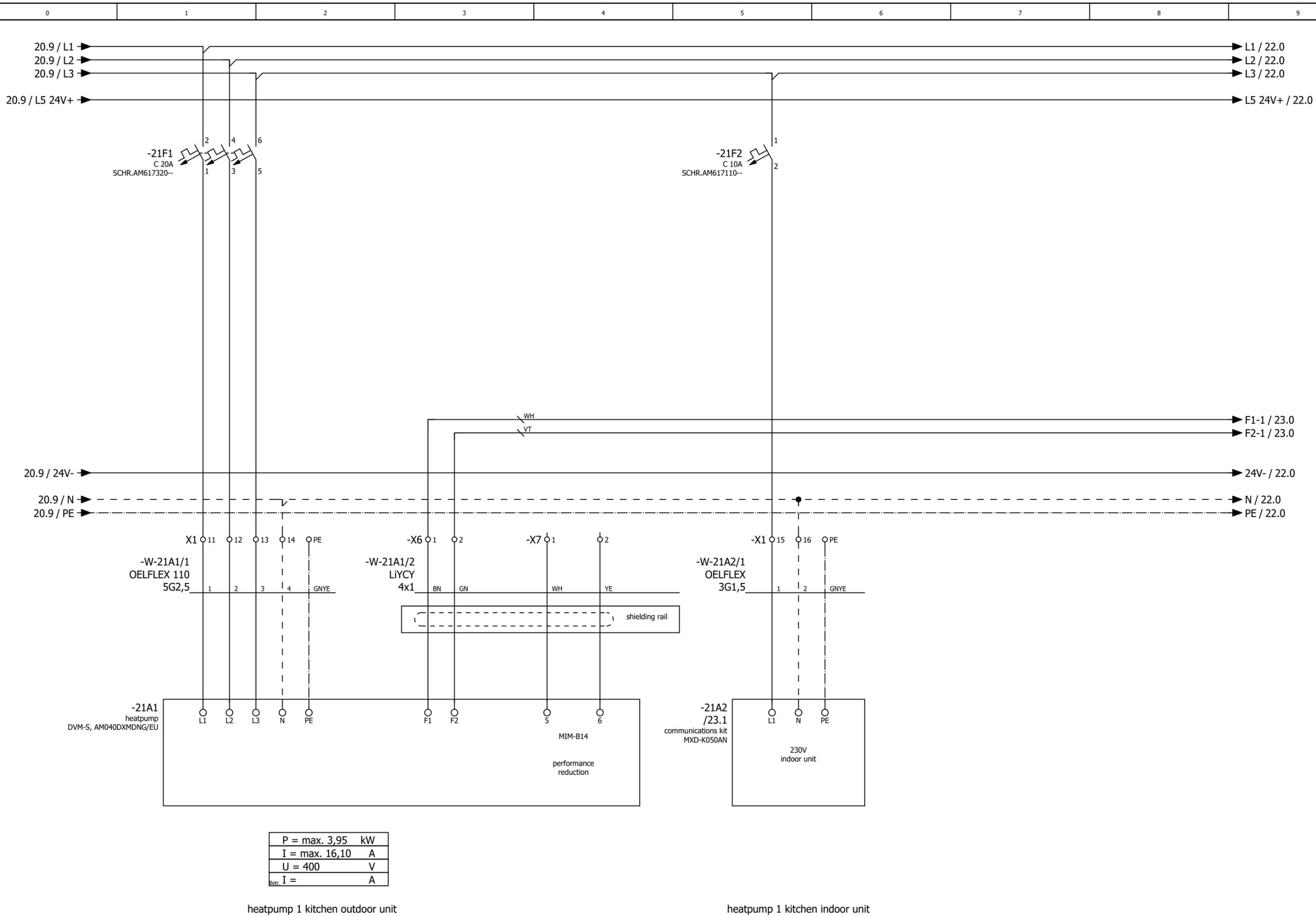


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								page 18/ 58	



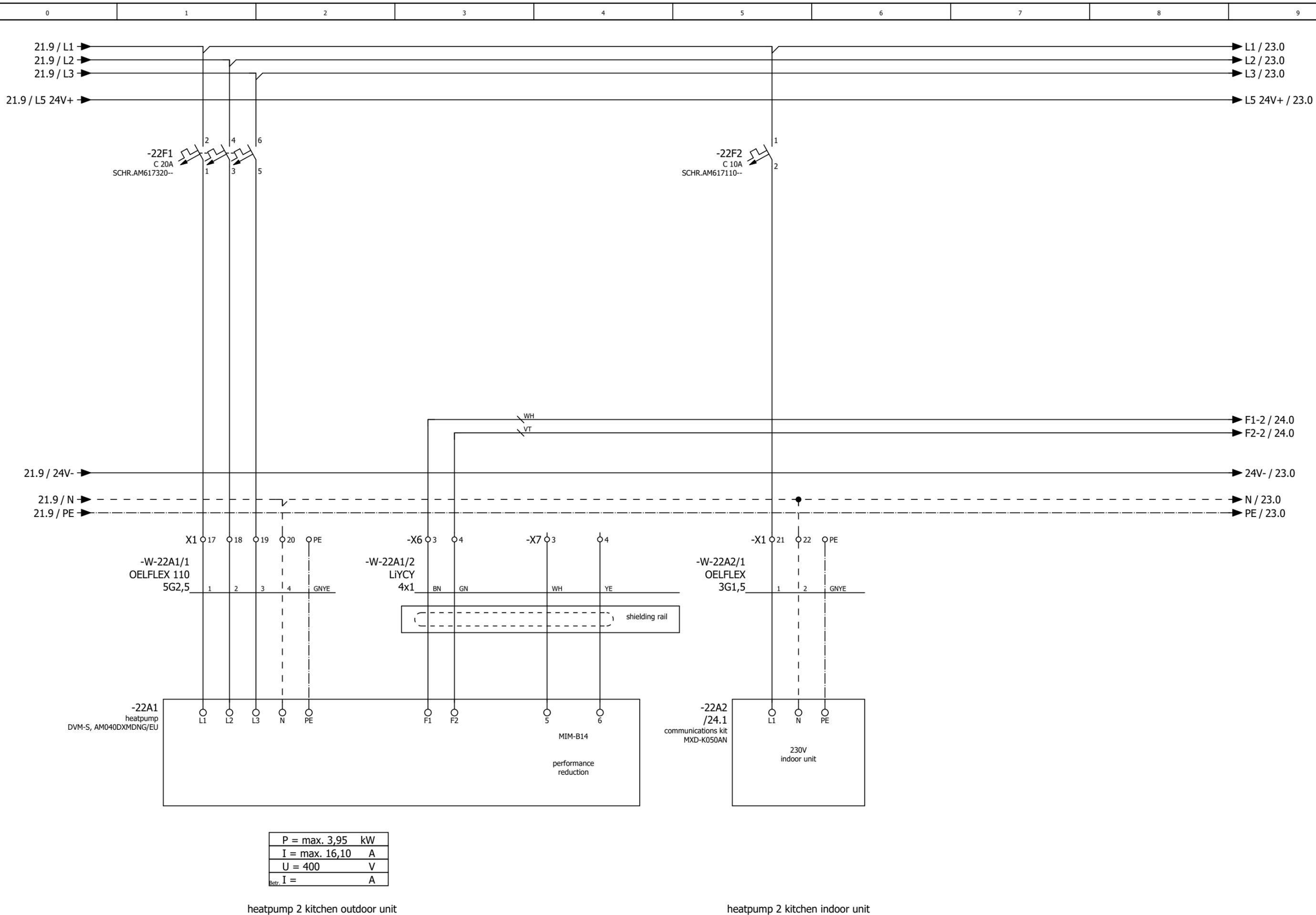
heating pump  
heater valve  
kitchen

4614a



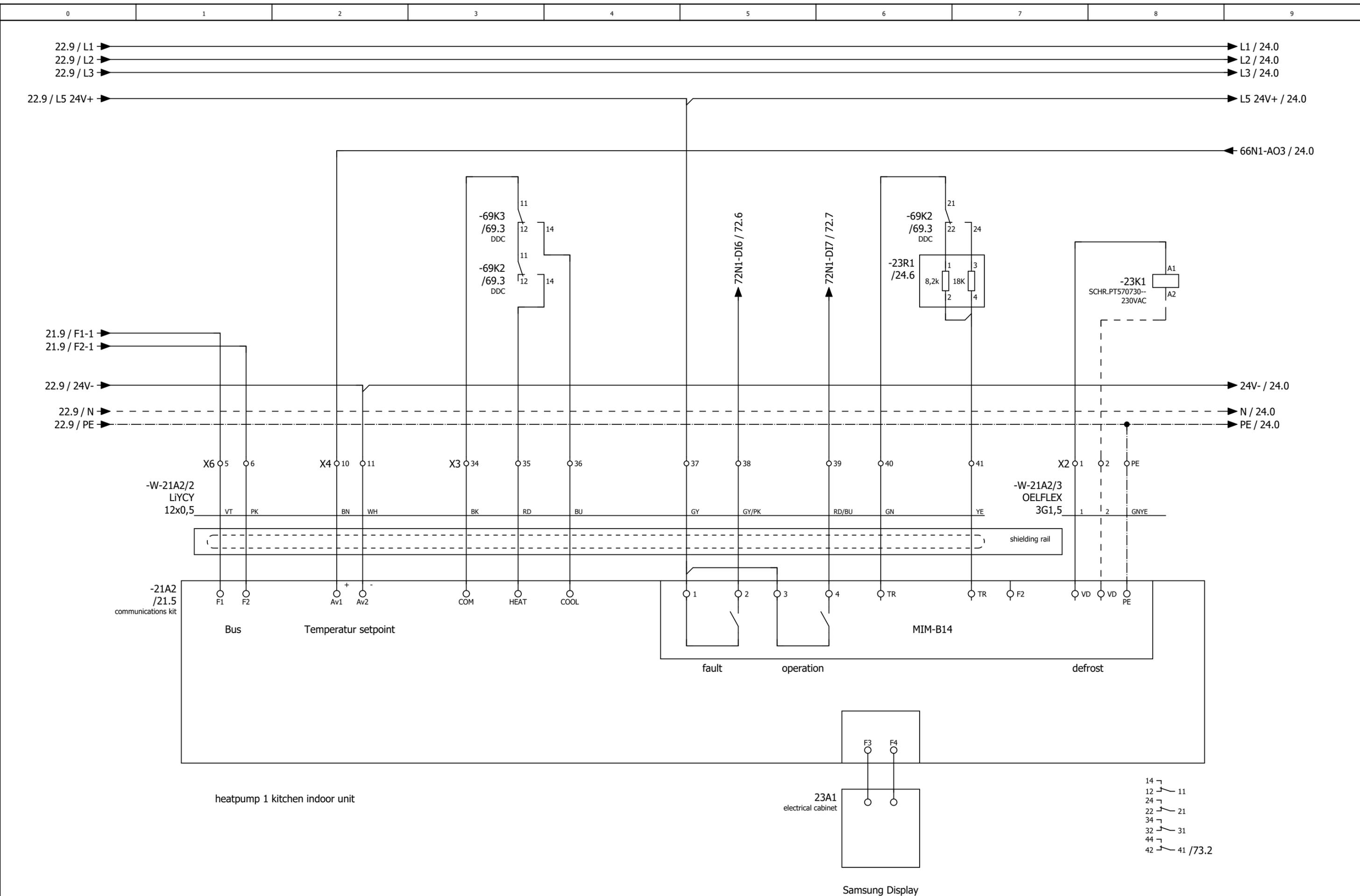
heatpump 1 kitchen outdoor unit

heatpump 1 kitchen indoor unit



heatpump 2 kitchen outdoor unit

heatpump 2 kitchen indoor unit

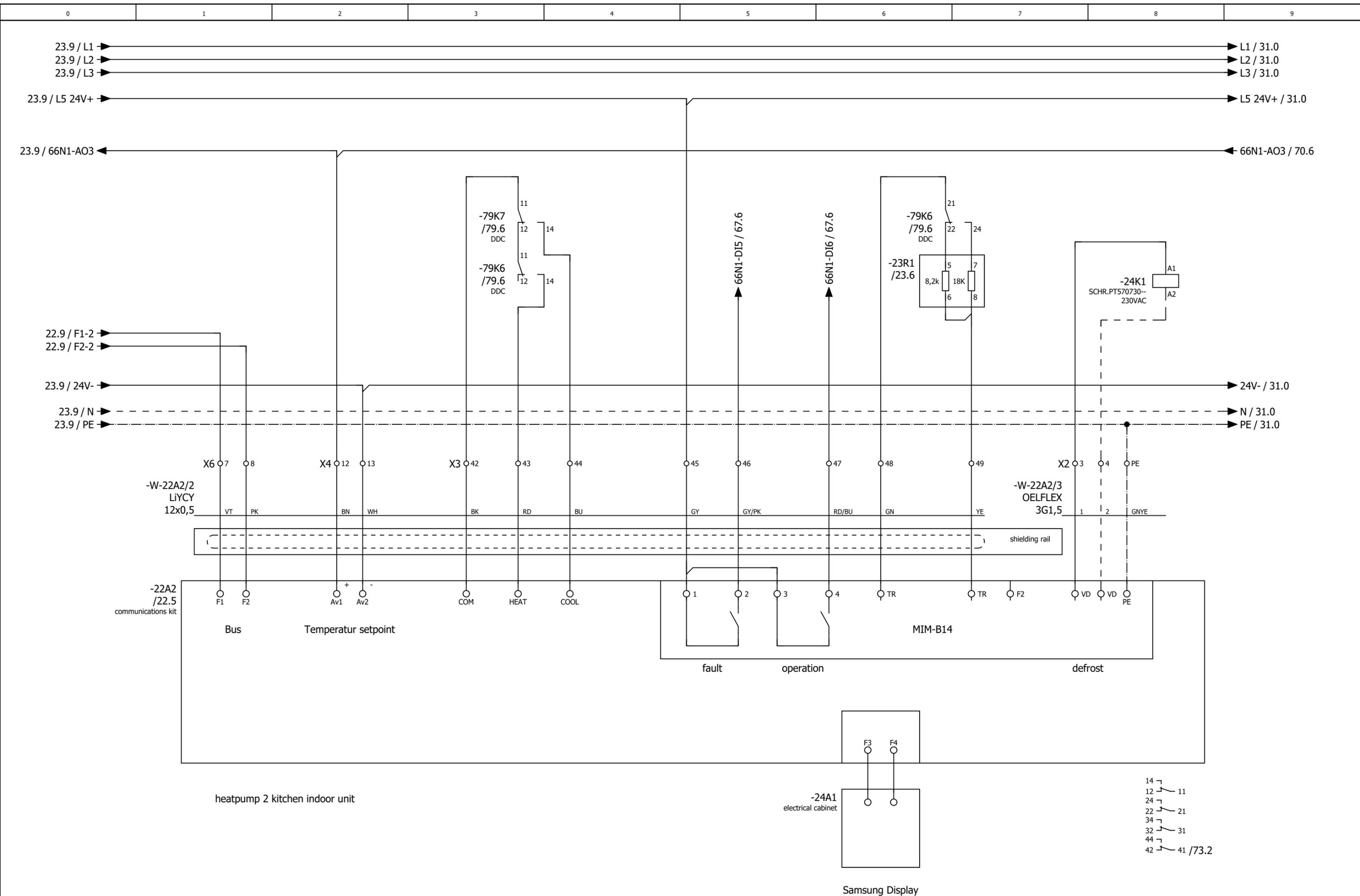


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		checked	M. Wagner	replaced by				page	23
change	date	name	origin	replaced for			custom no: 7559	4614a	page 21/ 58



heatpump 1  
kitchen  
indoor unit

4614a



		date	10.09.2025	Mc Donald´s DK - Rødovre				= RLT_1	
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								page	22/ 58

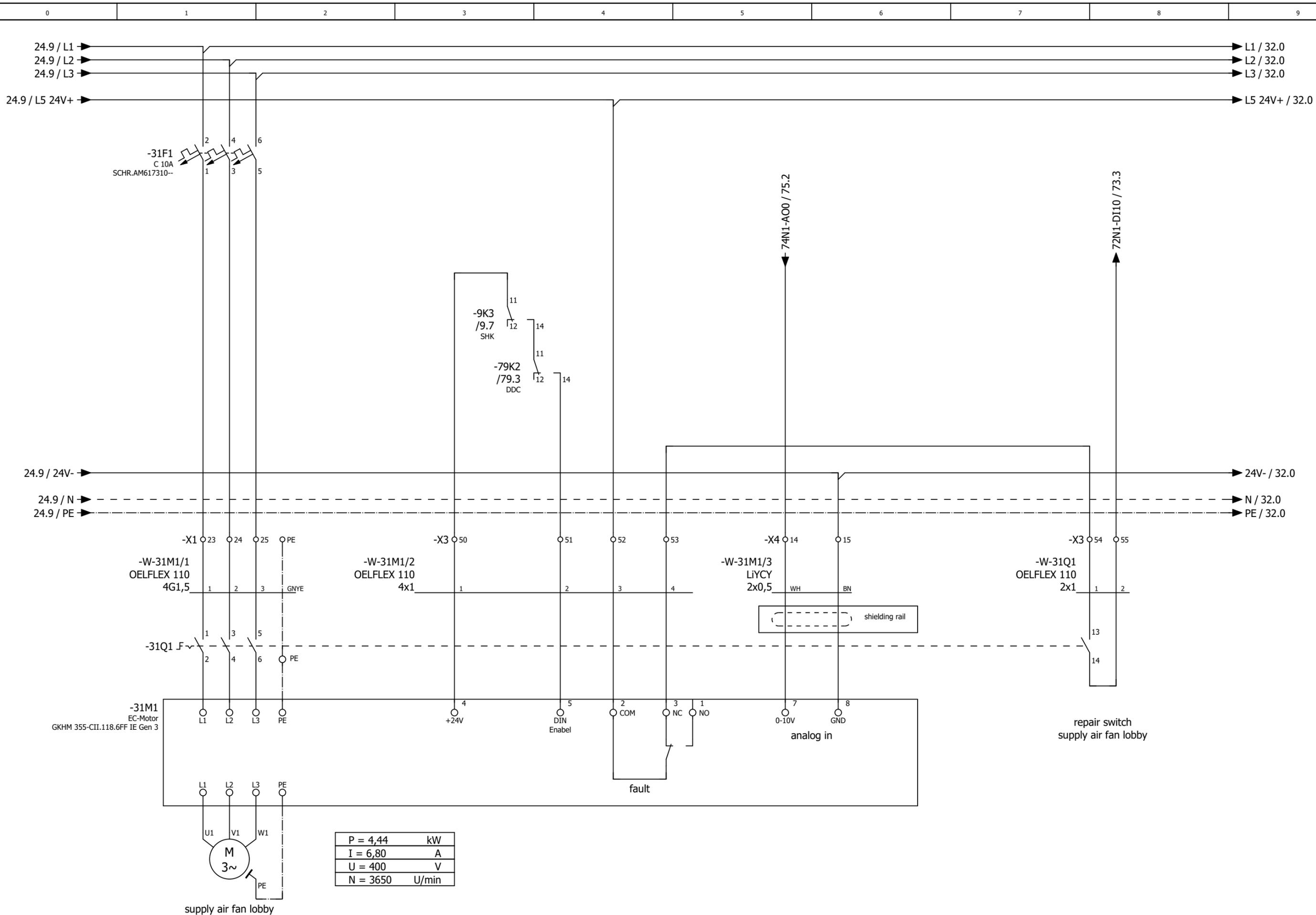


heatpump 2  
kitchen  
indoor unit

4614a

# AHU LOBBY

			date	10.09.2025	Mc Donald´s DK - Rødovre		air handling unit lobby	= RLT_1		page	30
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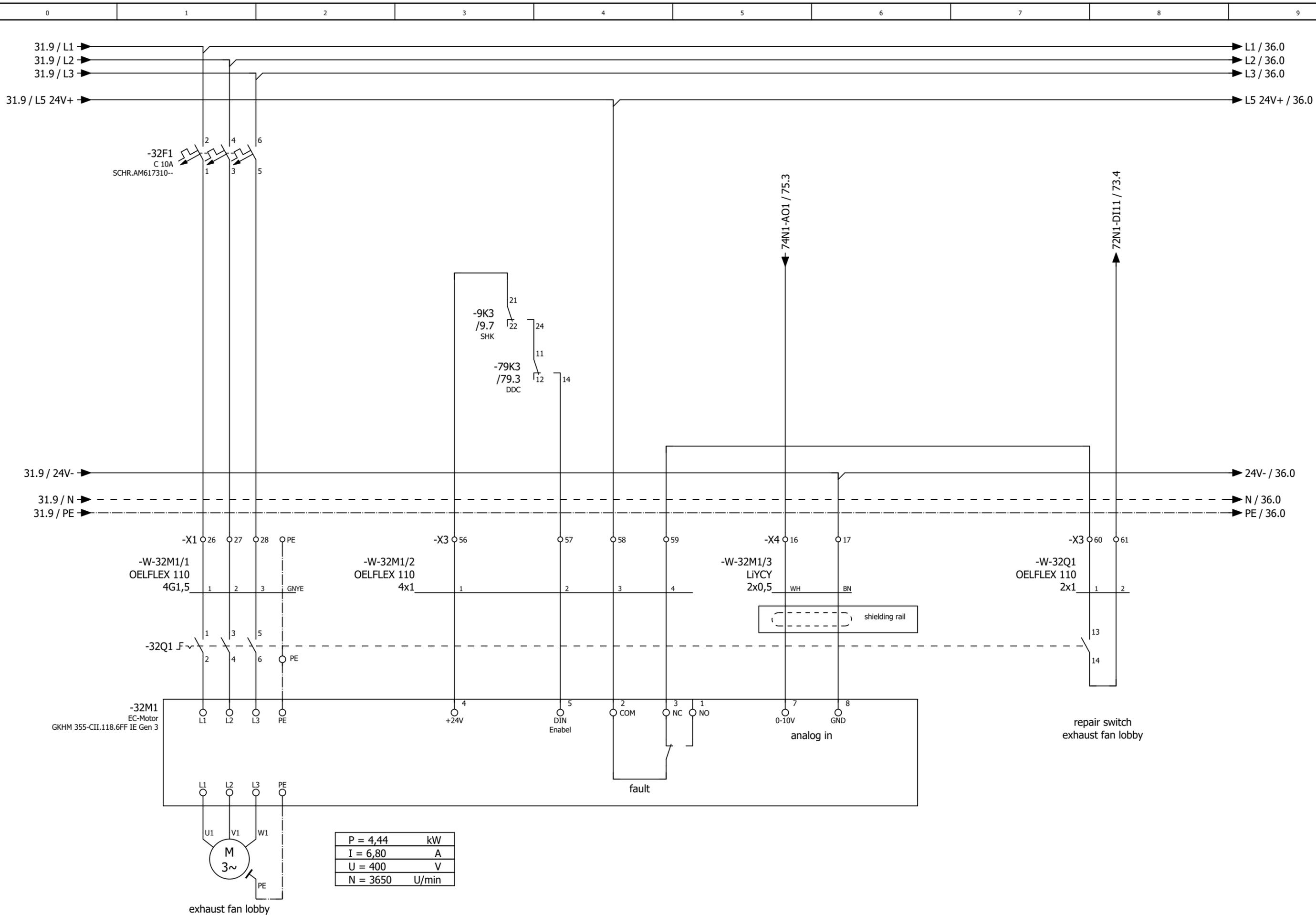
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	10.09.2025	daniel.preuss	
		M. Wagner	

Mc Donald's DK - Rødovre	
ventilation	
replacement for	replaced by



supply air fan lobby

= RLT_1	
+	page 31
custom no: 7559	4614a
page 24/ 58	



date	10.09.2025
edited	daniel.preuss
checked	M. Wagner
change	date
name	origin

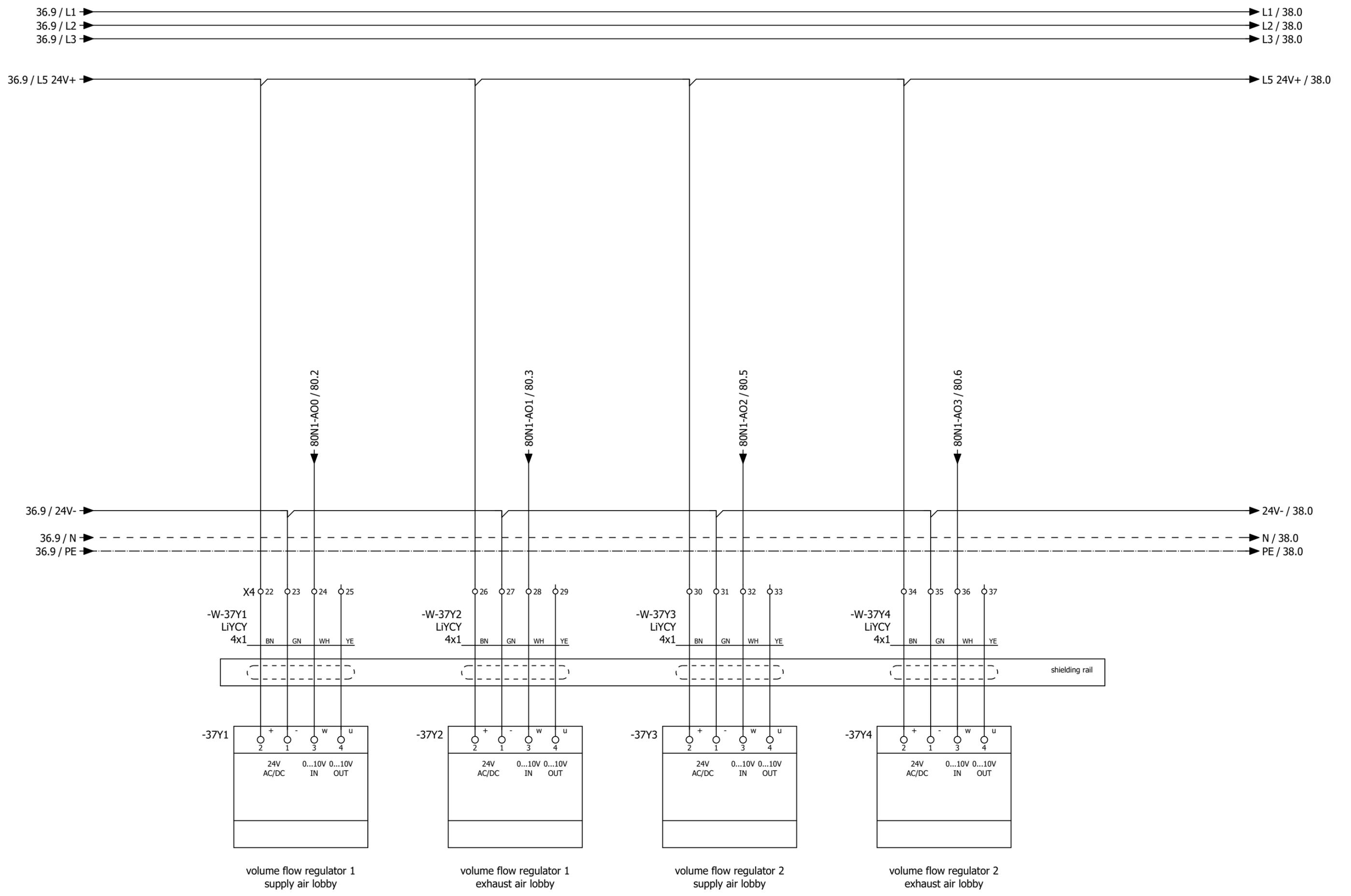
Mc Donald's DK - Rødovre	
ventilation	
replacement for	replaced by



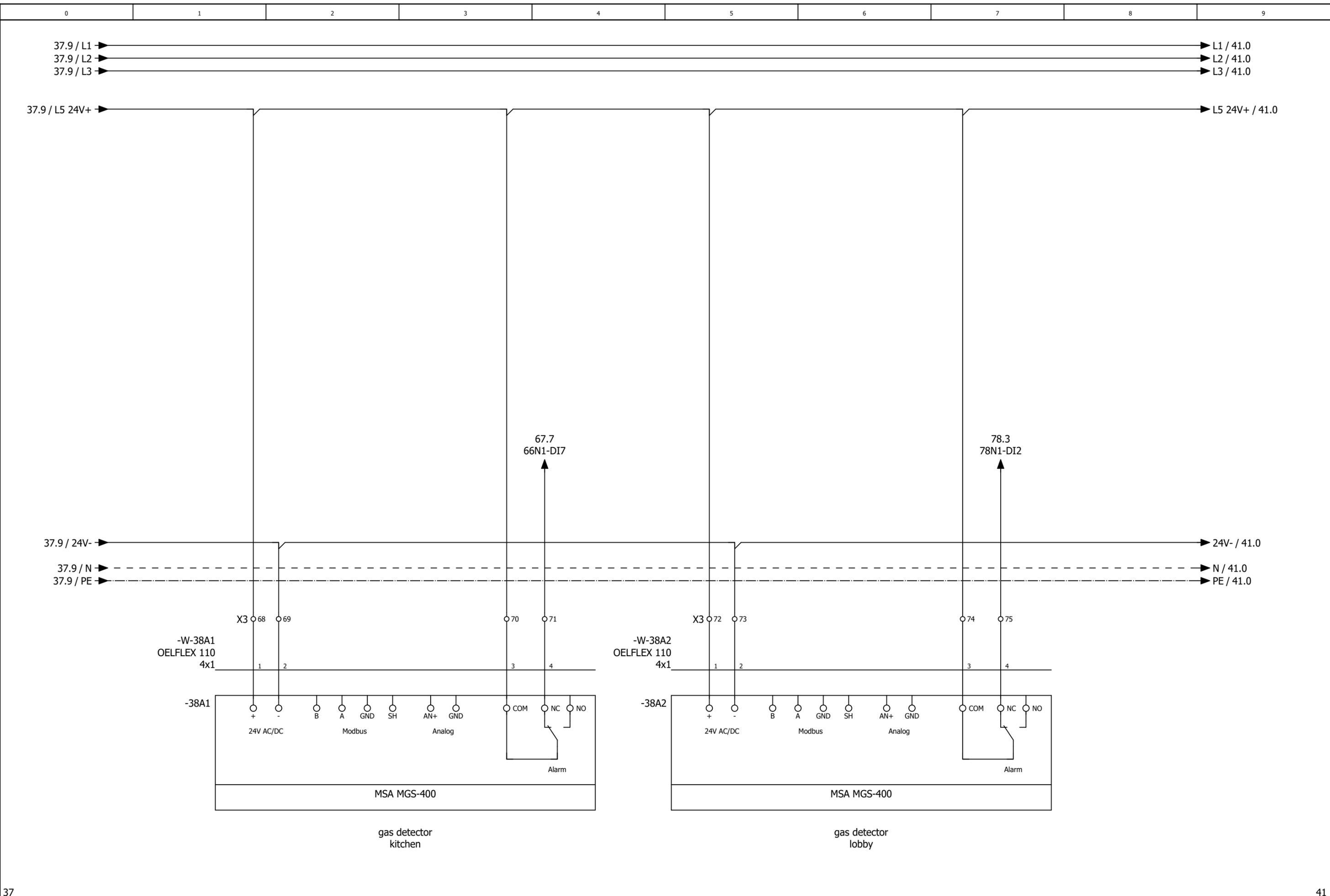
exhaust fan lobby

custom no: 7559	4614a	= RLT_1	page 32
		+	page 25/ 58





volume flow regulator

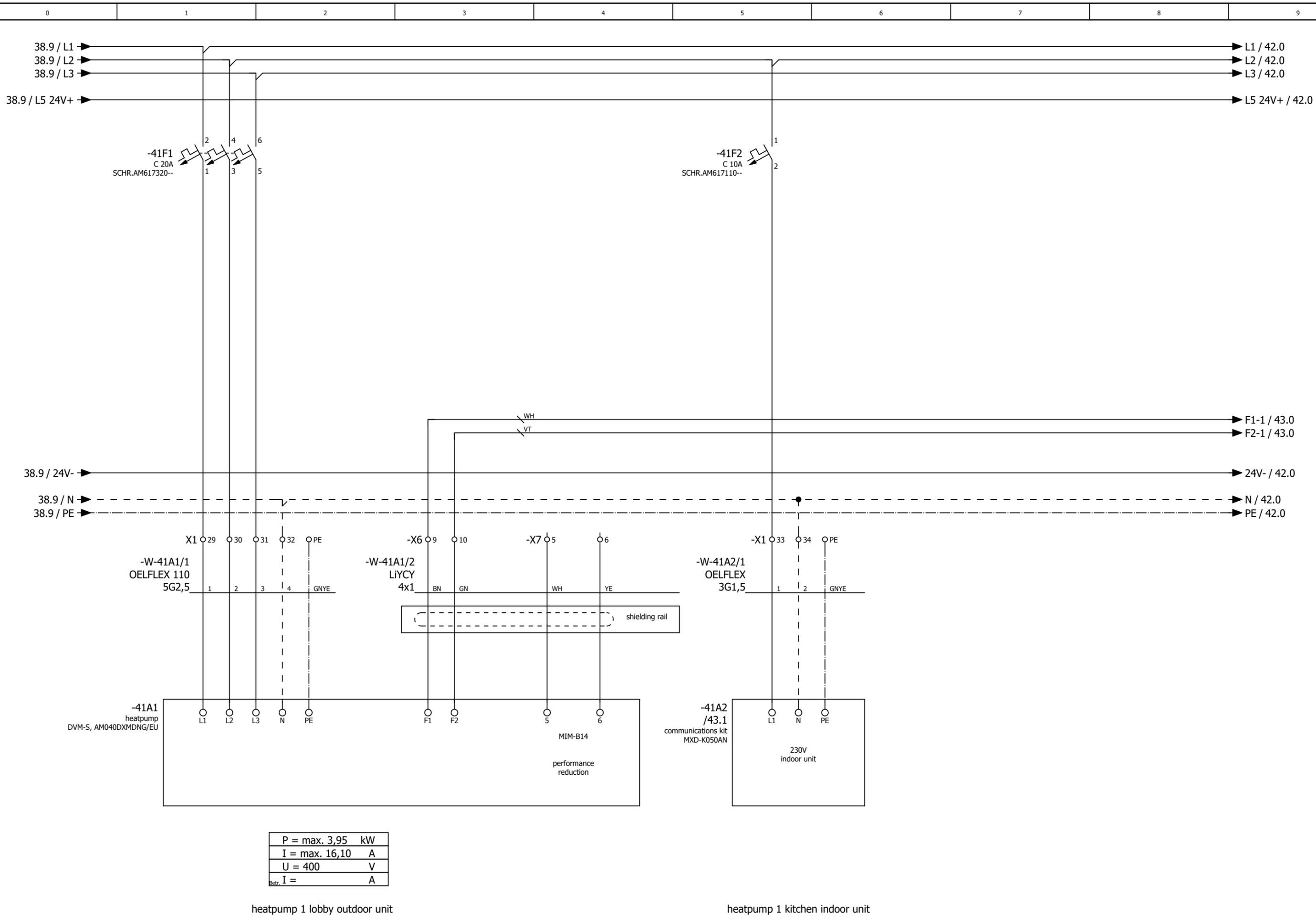


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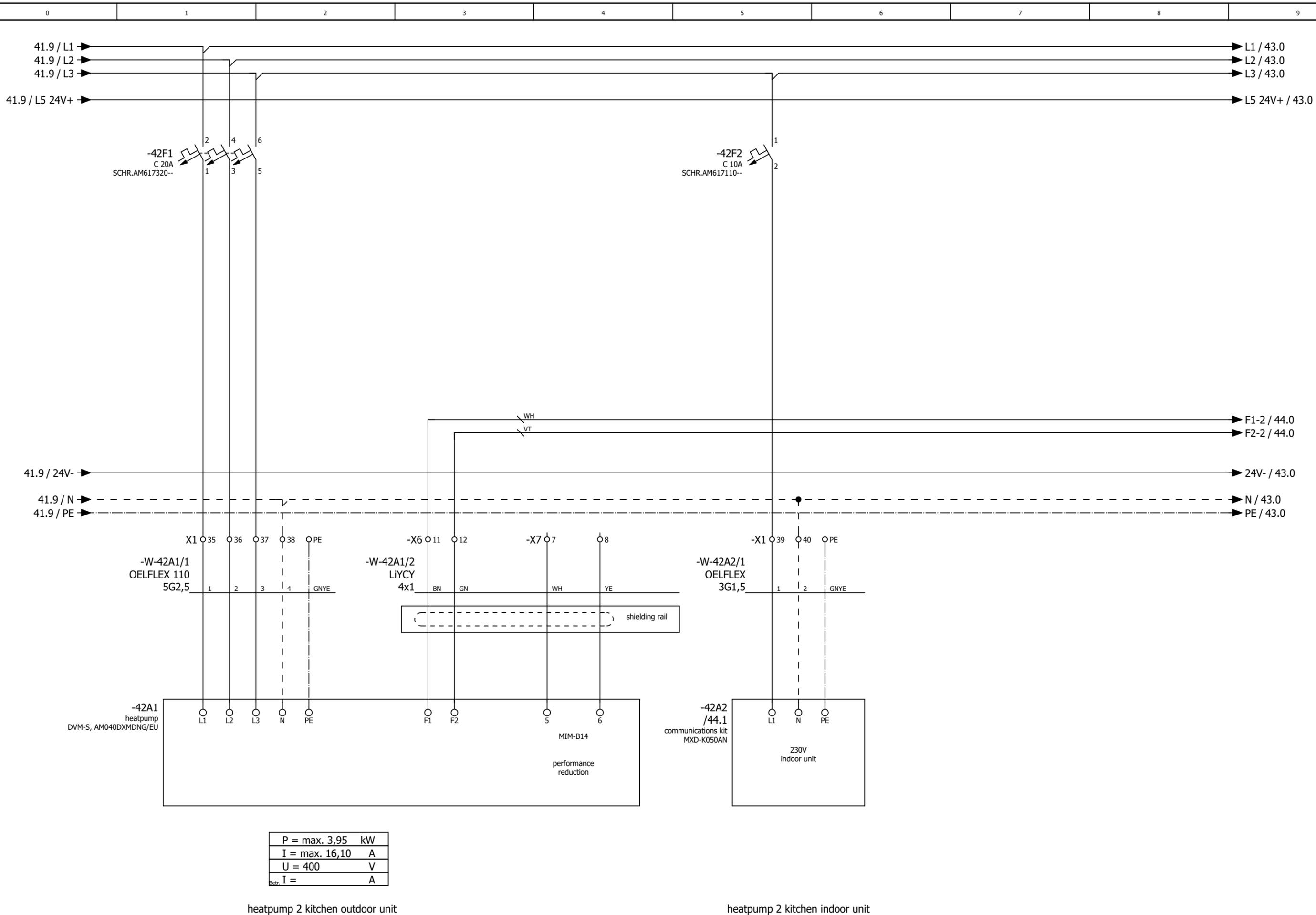
gas detector

custom no: 7559 4614a



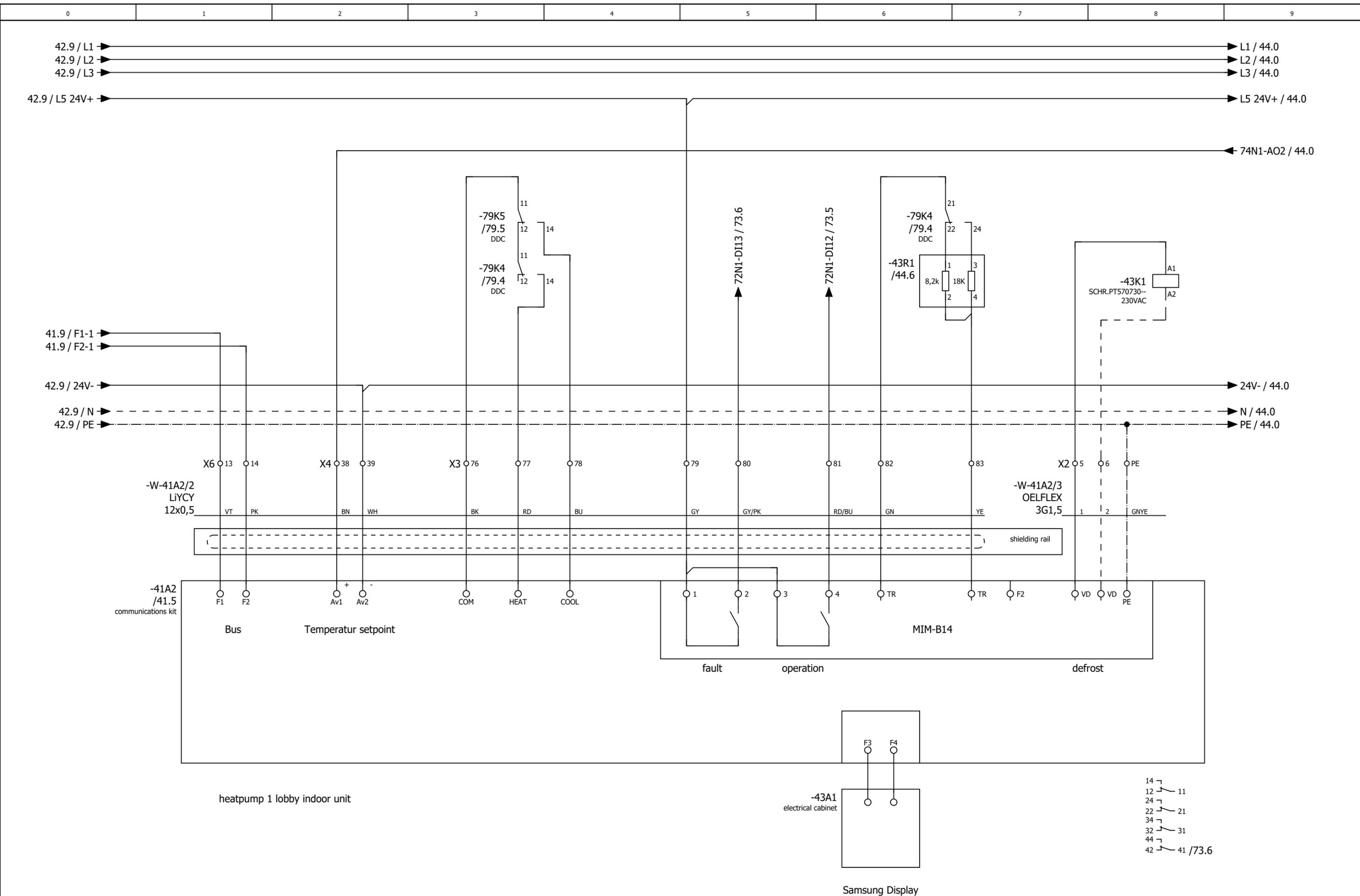
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change	date	name	origin	replaced for	heatpump 1 lobby		custom no: 7559	4614a	





heatpump 2  
lobby

custom no: 7559 4614a



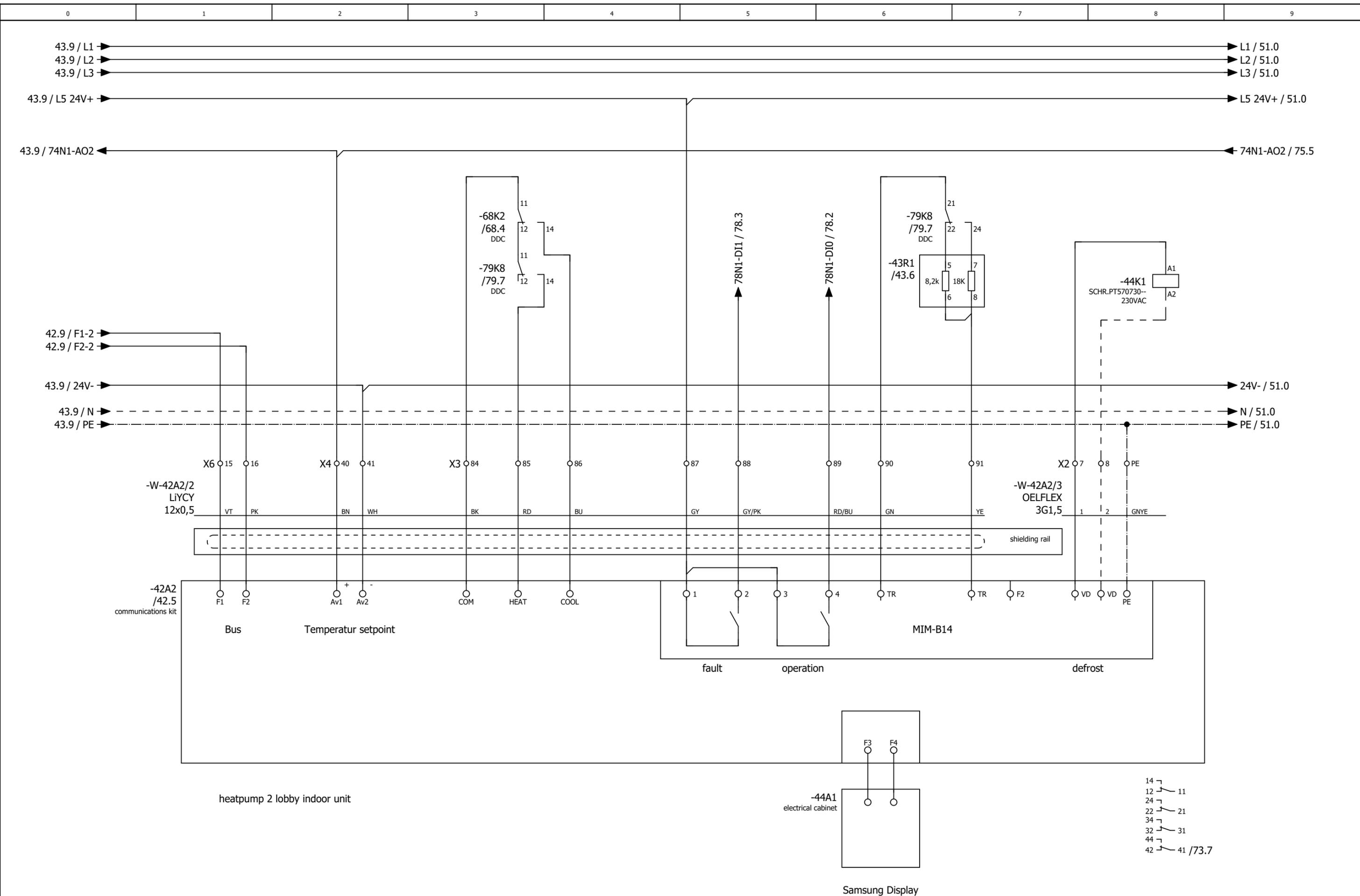
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checked	M. Wagner
change	date
name	origin

Mc Donald's DK - Rødovre	
ventilation	
replacement for	replaced by



heatpump 1  
lobby  
indoor unit

custom no: 7559	4614a
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		date	10.09.2025	Mc Donald´s DK - Rødovre				= RLT_1	
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								page	32 / 58



heatpump 2  
lobby  
indoor unit

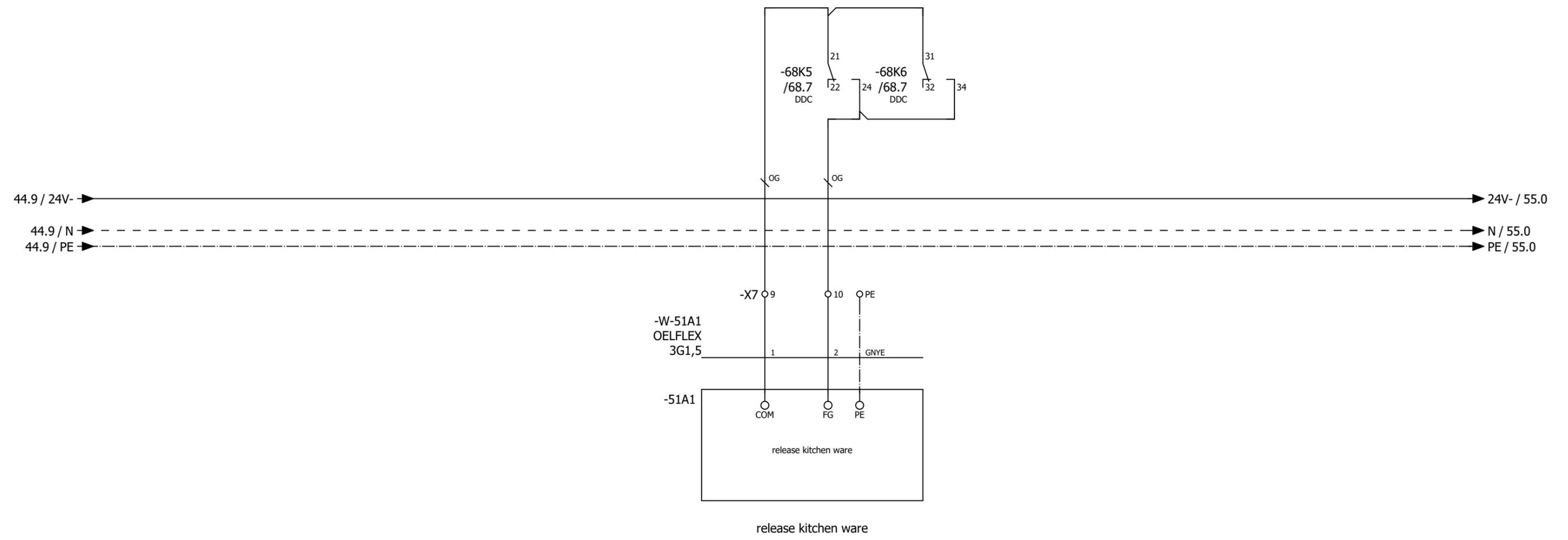
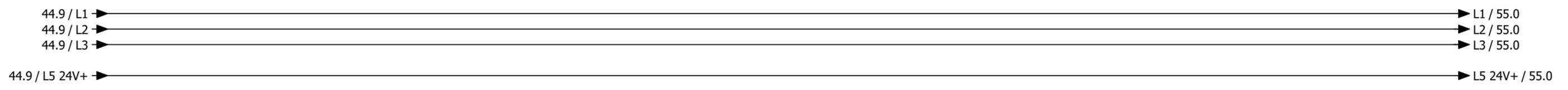
4614a

0	1	2	3	4	5	6	7	8	9
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# unit discription general

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change	date	name	origin		replacement for	replaced by		custom no: 7559	4614a	page 33/ 58	

0	1	2	3	4	5	6	7	8	9
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change	date	name	origin	10.09.2025	Mc Donald´s DK - Rødovre		release kitchen ware	custom no: 7559	4614a	= RLT_1	page 51
				edited	daniel.preuss					+	page 34/ 58
				checked	M. Wagner						
					replacement for						



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# unit discription DDC

			date	10.09.2025	Mc Donald´s DK - Rødovre		unit discription DDC	= RLT_1			
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			checked	M. Wagner							
change	date	name	origin		replacement for	replaced by		custom no: 7559	<b>4614a</b>	page <b>36/ 58</b>	

**-66N1 /66.0 DEOS -600/5 OPEN**  
High Power Controller

DI0 ○ /67.2	start ventilation	DO0 ○ /68.1	report AHU running	AI0 ○ /71.1	differential pressire sensor supply air kitchen
DI1 ○ /67.3	fault reset	DO1 ○ /68.2	report AHU fault	AI1 ○ /71.2	reserve
DI2 ○ /67.3	phase monitoring	DO2 ○ /68.3	report AHU maintenance	AI2 ○ /71.3	reserve
DI3 ○ /67.4	exhaust fan kitchen switch in position manual	DO3 ○ /68.4	fault reset	AI3 ○ /71.4	outside temperature sensor kitchen
DI4 ○ /67.5	fault antifreeze kitchen	DO4 ○ /68.4	heatpump 2 cooling lobby	AI4 ○ /71.5	supply air temperature sensor behind heater kitchen
DI5 ○ /67.6	operation heatpump 2 kitchen	DO5 ○ /68.5	flap drives kitchen	AI5 ○ /71.6	supply air temperature sensor total
DI6 ○ /67.6	fault heatpump 2 kitchen	DO6 ○ /68.6	supply air fan kitchen	AI6 ○ /71.7	exhaust air temperature sensor kitchen (option)
DI7 ○ /67.7	fault gas detector kitchen	DO7 ○ /68.7	exhaust fan kitchen	AI7 ○ /71.8	room temperature sensor kitchen
		DO8 ○ /69.2	exhaust fan dishes	A00 ○ /70.2	setpoint supply air fan kitchen
		DO9 ○ /69.3	heatpump 1 kitchen heating	A01 ○ /70.3	setpoint exhaust fan kitchen
		DO10 ○ /69.3	heatpump 1 kitchen cooling	A02 ○ /70.5	reserve
		DO11 ○ /69.4	heating pump	A03 ○ /70.6	KVS Ventil Küche

**-72N1 /72.1 DS-C-DI16**  
digital inputs modul 16 x DI

DI0 ○ /72.2	fault supply air fan kitchen
DI1 ○ /72.3	fault repair switch supply air fan kitchen
DI2 ○ /72.3	fault exhaust fan kitchen
DI3 ○ /72.4	fault repair switch exhaust fan kitchen
DI4 ○ /72.5	fault exhaust fan dishes
DI5 ○ /72.6	fault repair switch exhaust fan dishes
DI6 ○ /72.6	fault heatpump 1 kitchen
DI7 ○ /72.7	operation heatpump 1 kitchen
DI8 ○ /73.2	defrosting reverse cycle Heating systems 1+2 kitchen
DI9 ○ /73.3	fault heating pump kitchen
DI10 ○ /73.3	fault supply air fan/repair switch lobby
DI11 ○ /73.4	fault exhaust fan/repair switch lobby
DI12 ○ /73.5	operation heatpump 1 lobby
DI13 ○ /73.6	fault heatpump 1 lobby
DI14 ○ /73.6	defrosting reverse cycle Heating systems 1+2 lobby
DI15 ○ /73.7	term extension

**-74N1 /74.0 DS-C-AI8AO4**  
analog in / outputs modul 8 x AI / 4 x AO

AI0 ○ /74.1	differential pressire sensor supply air lobby
AI1 ○ /74.2	differential pressire sensor exhaust air lobby
AI2 ○ /74.3	differential pressire sensor heat recovery lobby
AI3 ○ /74.4	supply air temperature sensor behind heat recovery lobby
AI4 ○ /74.5	supply air temperature sensor total lobby
AI5 ○ /74.6	exhaust air temperature sensor lobby
AI6 ○ /74.7	differential pressire sensor outside airfilter lobby
AI7 ○ /74.8	differential pressire sensor exhaust airfilter lobby
A00 ○ /75.2	setpoint supply air fan lobby
A01 ○ /75.3	setpoint exhaust fan lobby
A02 ○ /75.5	setpoint heatpumpe lobby
A03 ○ /75.6	setpoint actuator heat recovery lobby

**-76N1 /76.0 DS-C-AI8AO4**  
analog in / outputs modul 8 x AI / 4 x AO

AI0 ○ /76.1	room sensor temperature lobby
AI1 ○ /76.1	room sensor CO <sup>2</sup> lobby
AI2 ○ /76.3	differential pressire sensor outside airfilter kitchen
AI3 ○ /76.4	reserve
AI4 ○ /76.5	reserve
AI5 ○ /76.6	return teperature sensor heater kitchen
AI6 ○ /76.7	air channel pressure supply air lobby
AI7 ○ /76.8	air channel pressure exhaust air lobby
A00 ○ /77.2	heater valve kitchen
A01 ○ /77.3	reserve
A02 ○ /77.5	reserve
A03 ○ /77.6	reserve

-78N1  
/78.1**DS-C-DI8DO8T**

digital in / outputs modul 8 x DI / 8 x DO

DI0	/78.2	operation heatpump 2 lobby
DI1	/78.3	fault heatpump 2 lobby
DI2	/78.3	fault gas detector lobby
DI3	/78.4	fault fire dampers
DI4	/78.5	reserve
DI5	/78.6	reserve
DI6	/78.6	reserve
DI7	/78.7	reserve
DO0	/79.2	flap drives lobby
DO1	/79.3	supply air fan lobby
DO2	/79.3	exhaust fan lobby
DO3	/79.4	heatpump 1 heating lobby
DO4	/79.5	heatpump 1 cooling lobby
DO5	/79.6	heatpump 2 heating kitchen
DO6	/79.6	heatpump 2 cooling kitchen
DO7	/79.7	heatpump 2 heating lobby

-80N1  
/80.1**DS-C-AO4**

analog outputs modul 4 x AO

AO0	/80.2	volume flow regulator 1 supply air lobby
AO1	/80.3	volume flow regulator 1 exhaust air lobby
AO2	/80.5	volume flow regulator 2 supply air lobby
AO3	/80.6	volume flow regulator 2 exhaust air lobby

			date	10.09.2025	Mc Donald´s DK - Rødovre ventilation		overview occupancy board 2	custom no: 7559	4614a	= RLT_1	page	62
			edited	daniel.preuss						+	page	38/ 58
			checked	M. Wagner						replaced by		
change	date	name	origin		replaced for							

66N1  
/66.0

-72N1  
/72.1

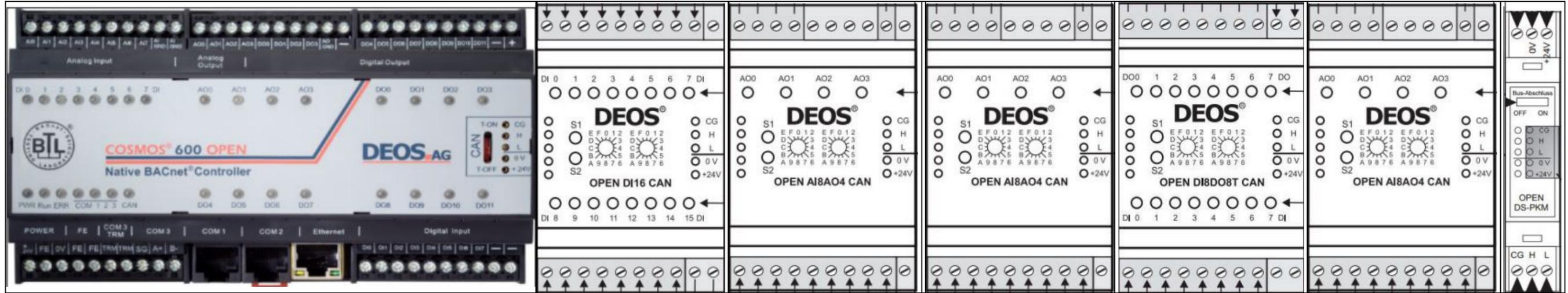
-74N1  
/74.0

-76N1  
/76.0

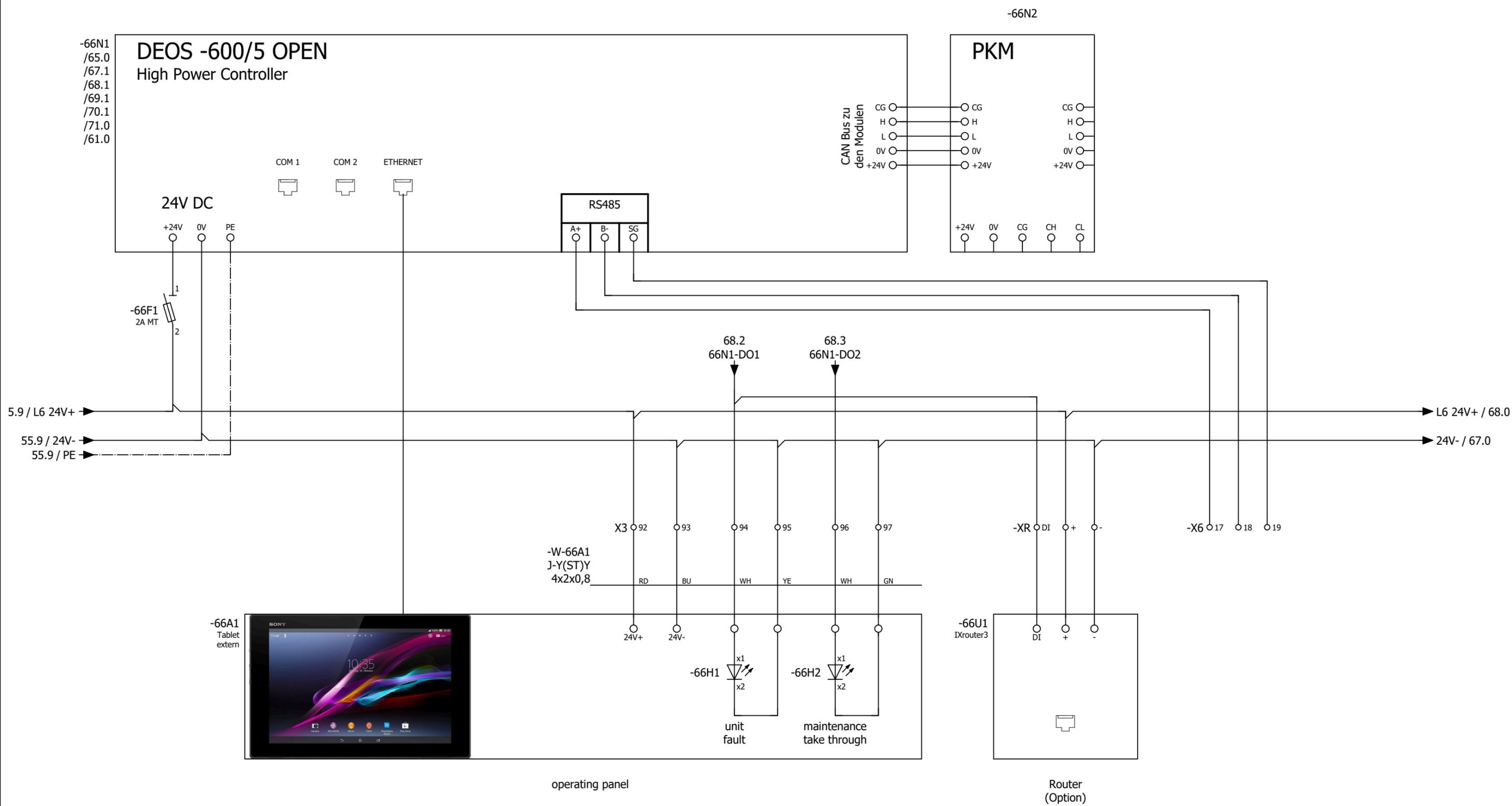
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/78.1

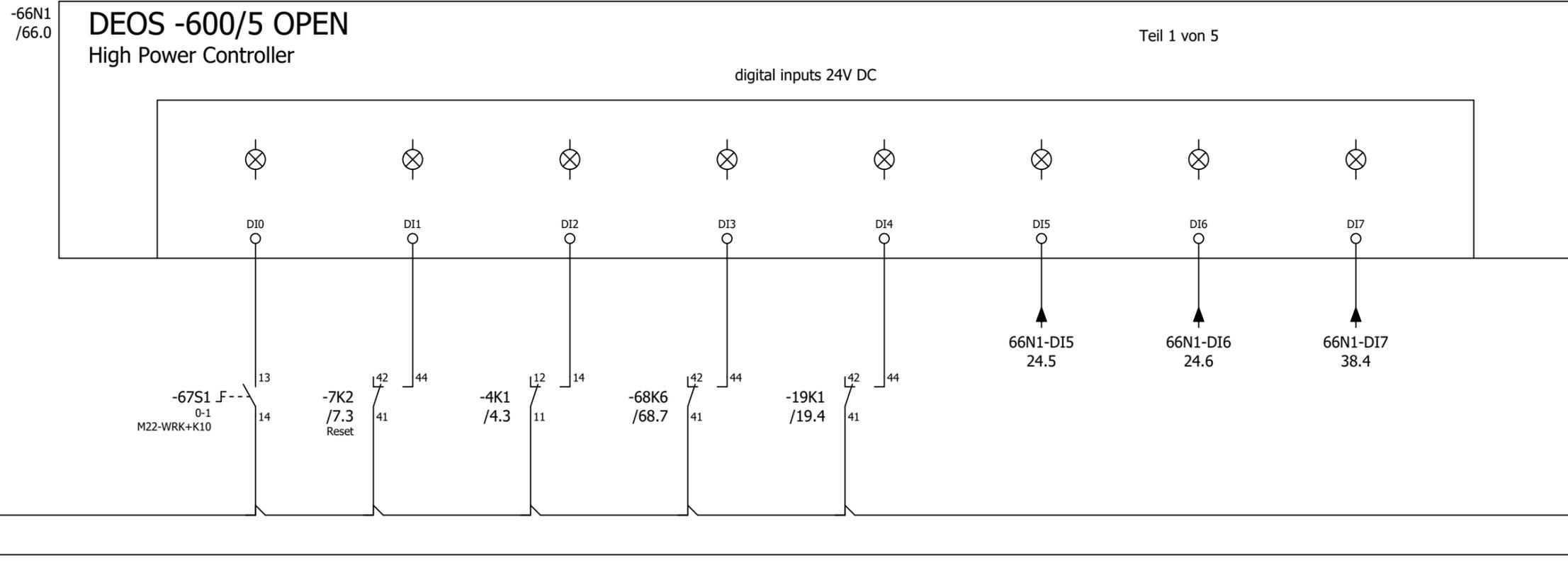
-80N1  
/80.1

-66N3



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change	date	name	origin							





start ventilation

fault reset

phase monitoring

exhaust fan kitchen switch in position manual

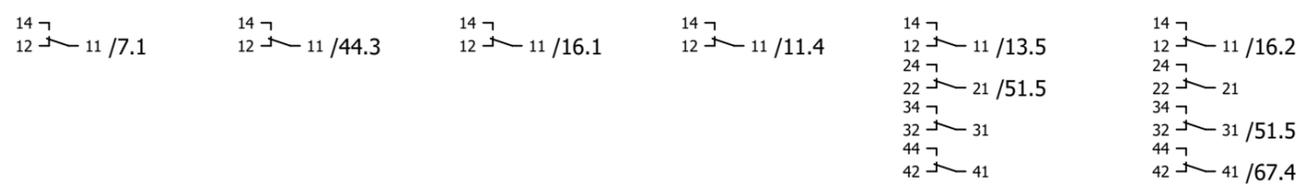
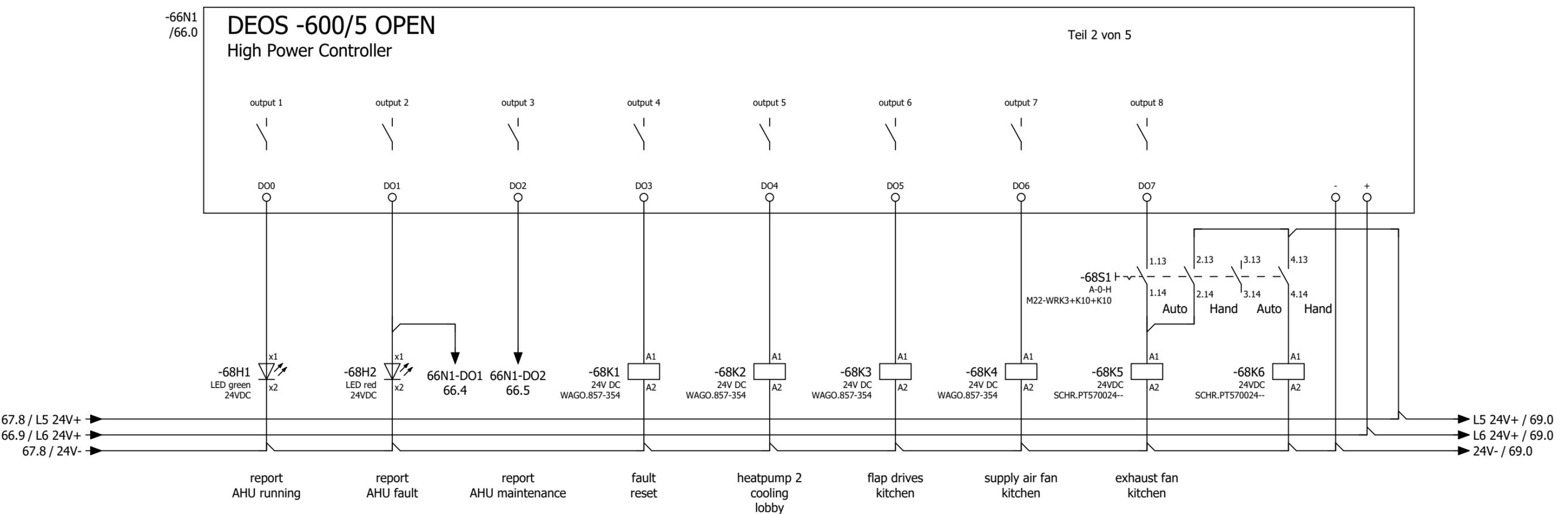
fault antifreeze kitchen

operation heatpump 2 kitchen

fault heatpump 2 kitchen

fault gas detector kitchen

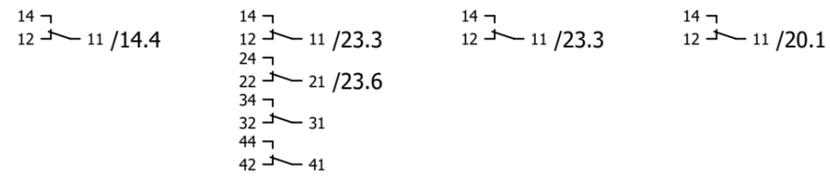
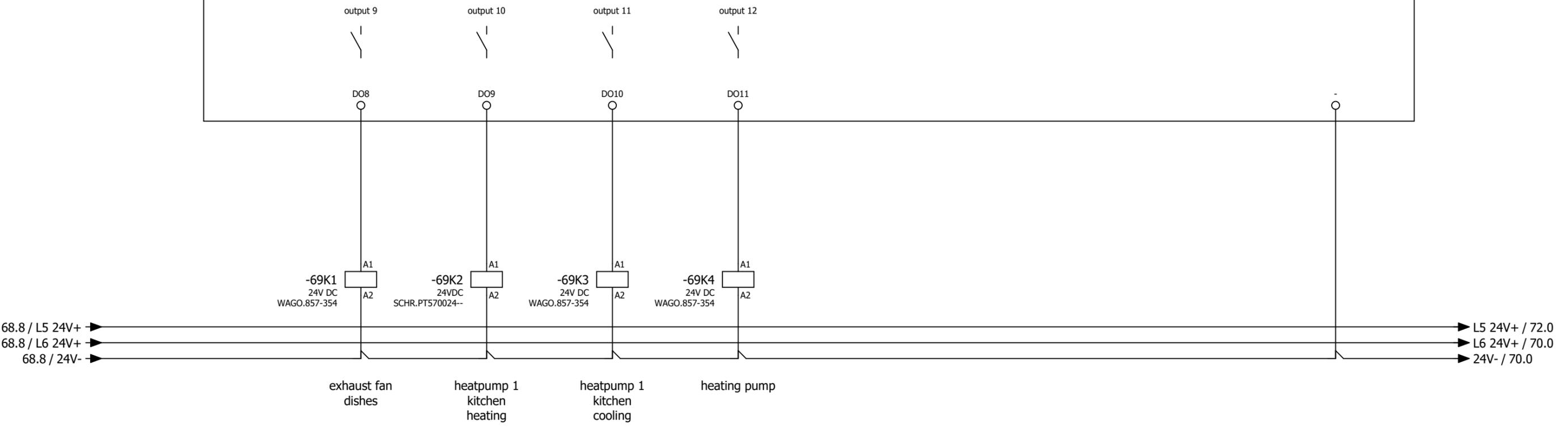
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change	date	name	origin	replaced for	ROX KLIMATECHNIK		CPU - digital inputs 8 x DI		custom no: 7559 4614a



-66N1  
/66.0

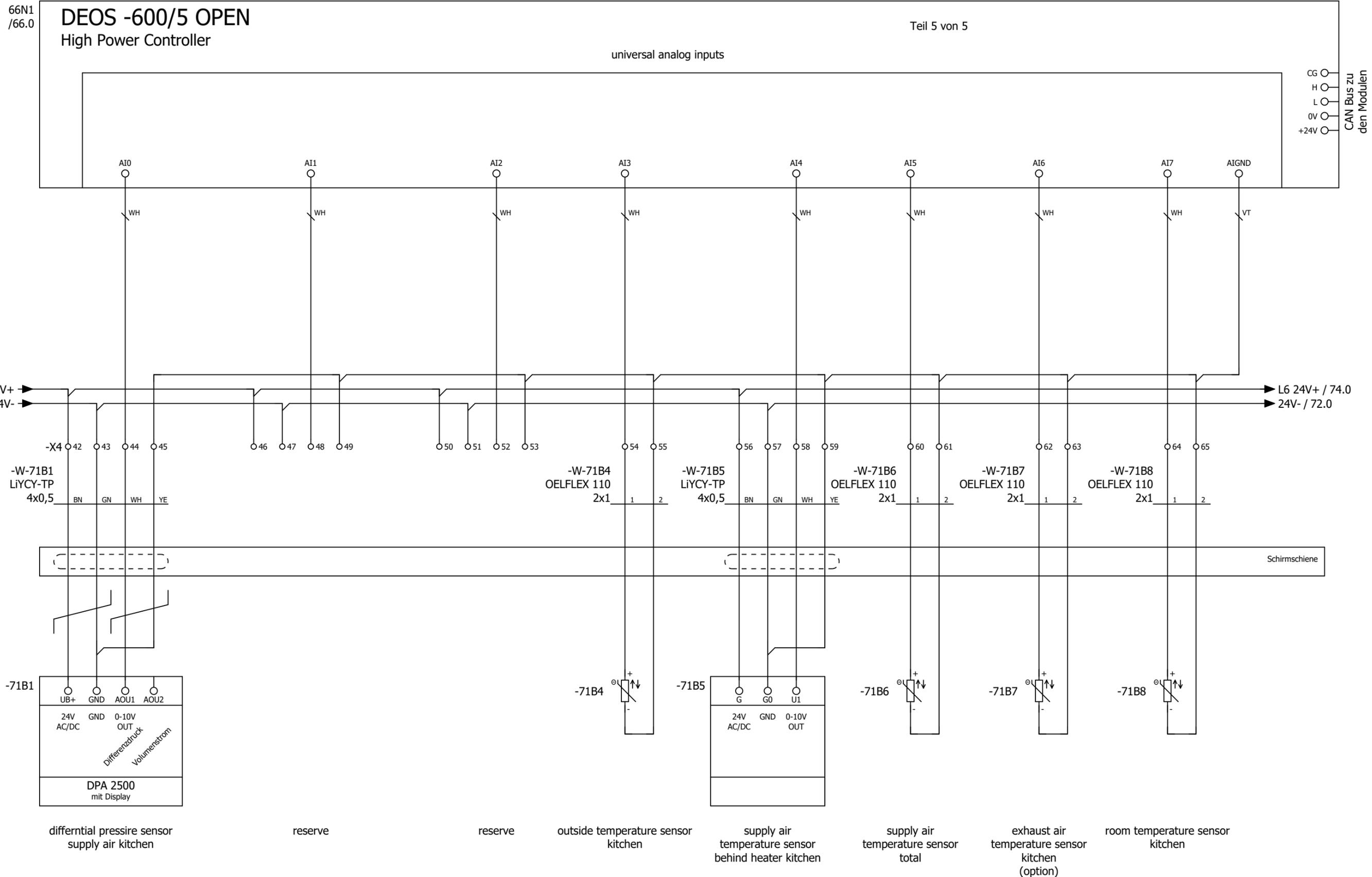
### DEOS -600/5 OPEN High Power Controller

Teil 3 von 5



				date	10.09.2025	Mc Donald´s DK - Rødovre ventilation		CPU - digital outputs 4 x DO		= RLT_1	page	69	
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change	date	name	origin	checked	M. Wagner			replacement for					





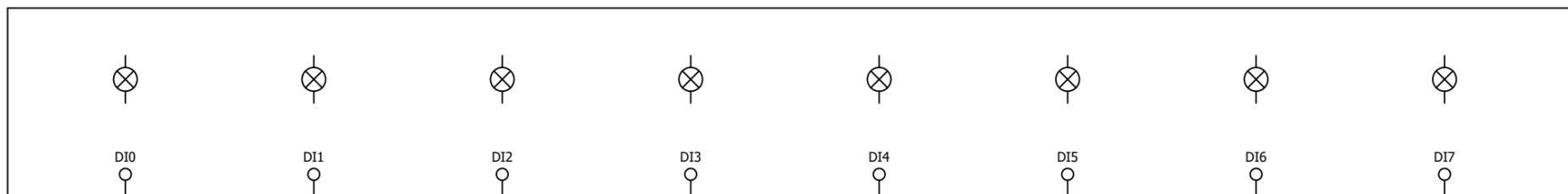
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				checked	M. Wagner								page 45/ 58	
change	date	name	origin	replacement for	replaced by			custom no: 7559		4614a				

-72N1  
/65.3  
/73.1  
/61.0

**DS-C-DI16**  
digital inputs module 16 x DI

Teil 1 von 2

digital inputs 24V DC



72N1-DI0  
11.4

72N1-DI1  
11.8

72N1-DI2  
13.4

72N1-DI3  
13.8

72N1-DI4  
14.3

72N1-DI5  
14.5

72N1-DI6  
23.5

72N1-DI7  
23.6

fault  
supply air fan  
kitchen

fault repair switch  
supply air fan  
kitchen

fault  
exhaust fan  
kitchen

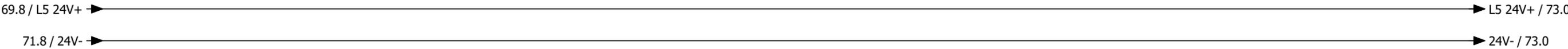
fault repair switch  
exhaust fan  
kitchen

fault  
exhaust fan  
dishes

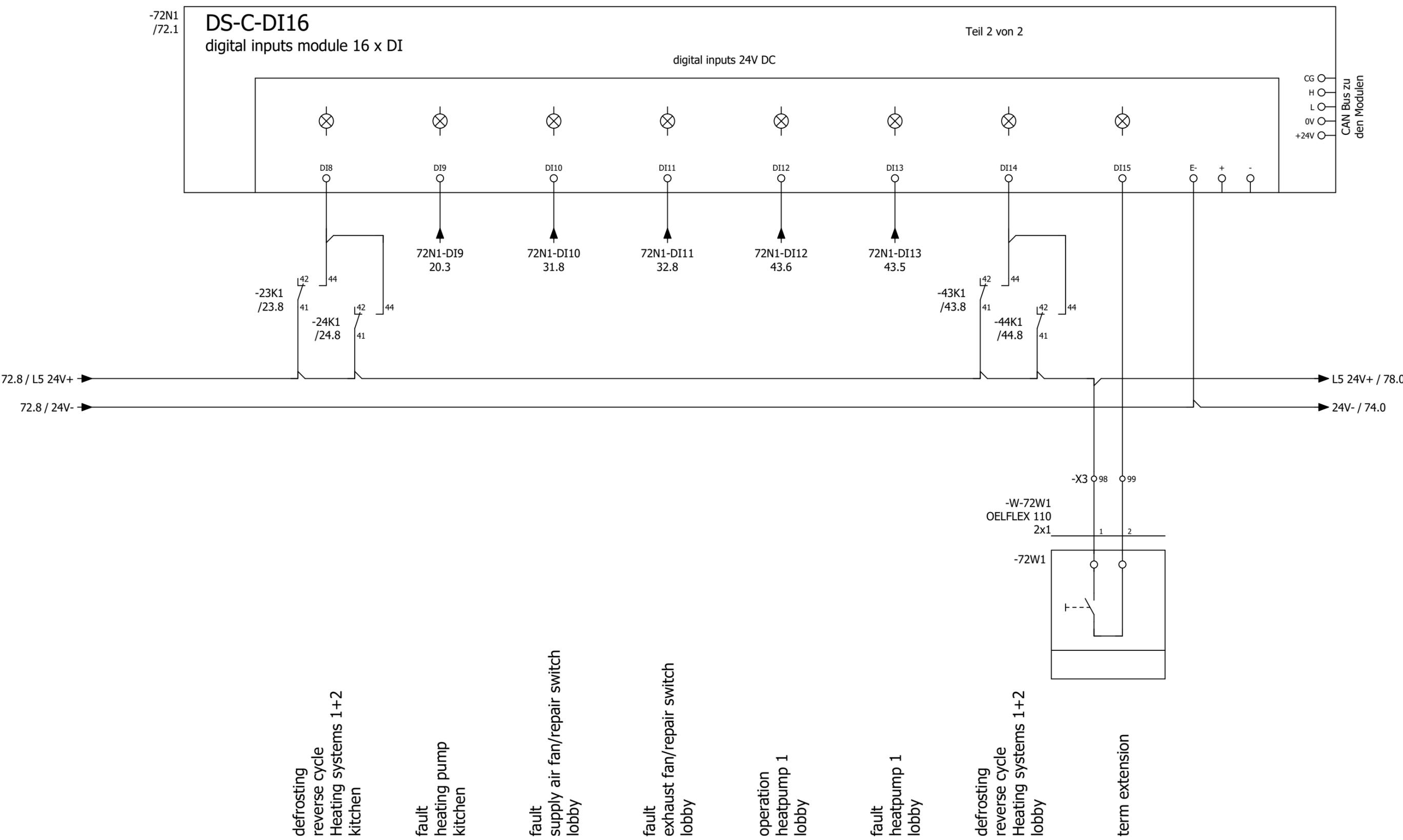
fault repair switch  
exhaust fan  
dishes

fault  
heatpump 1  
kitchen

operation  
heatpump 1  
kitchen



			date	10.09.2025	Mc Donald´s DK - Rødovre		DDC - digital inputs 16 x DI	= RLT_1		
			edited	daniel.preuss	ventilation			+	page	72
			checked	M. Wagner	replaced by			custom no: 7559	4614a	



defrosting  
reverse cycle  
Heating systems 1+2  
kitchen

fault  
heating pump  
kitchen

fault  
supply air fan/repair switch  
lobby

fault  
exhaust fan/repair switch  
lobby

operation  
heatpump 1  
lobby

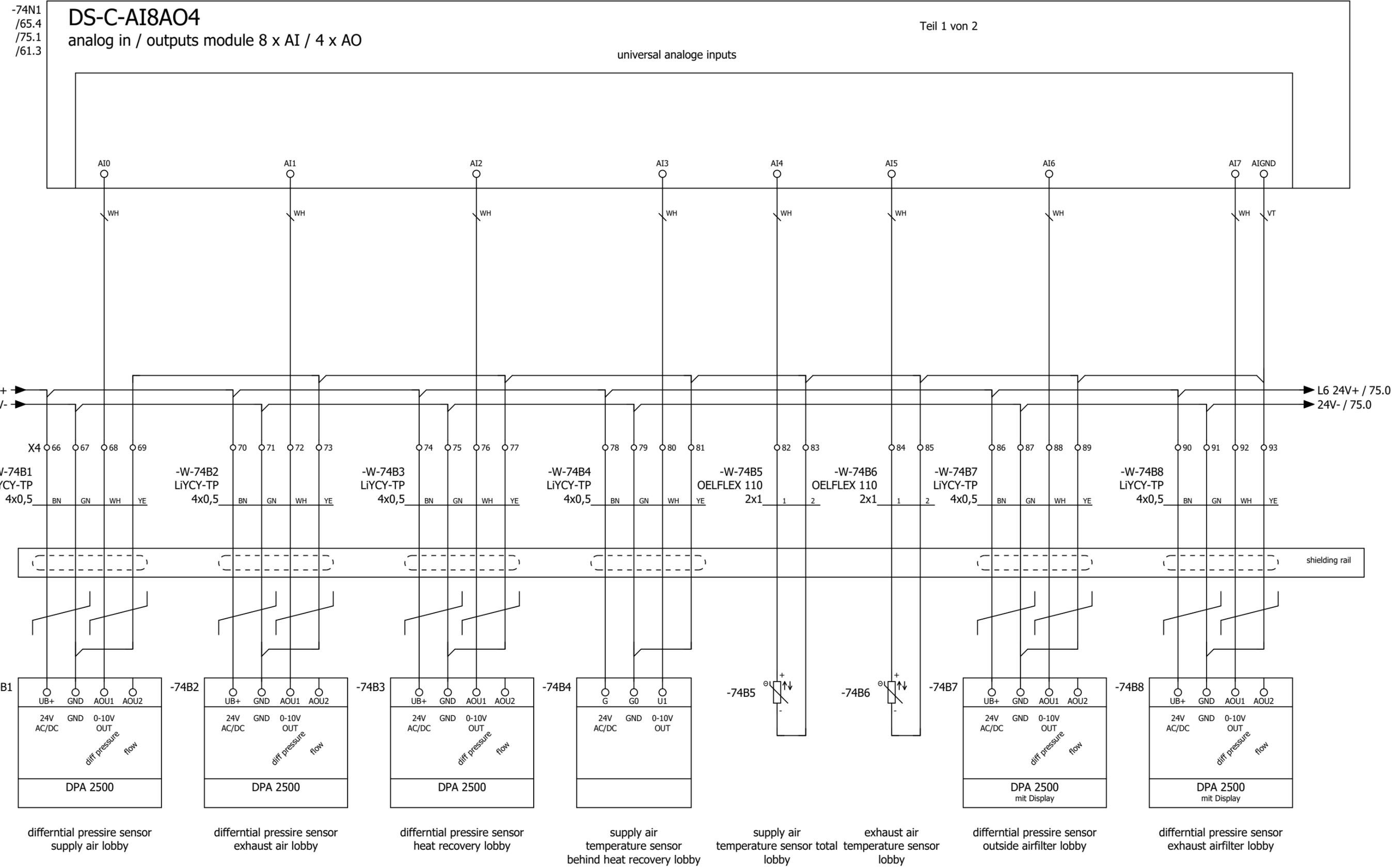
fault  
heatpump 1  
lobby

defrosting  
reverse cycle  
Heating systems 1+2  
lobby

term extension

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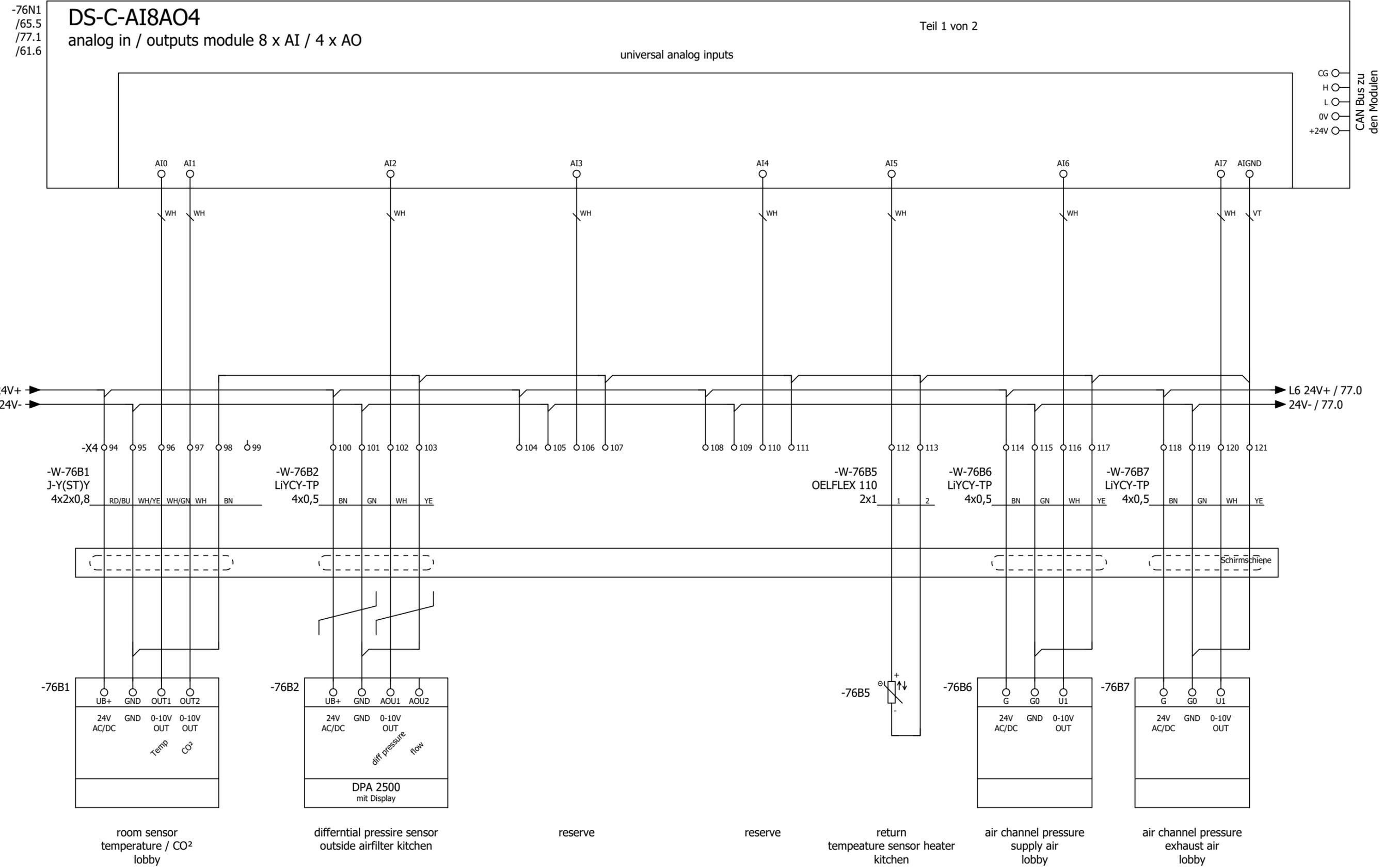




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								page 48 / 58	







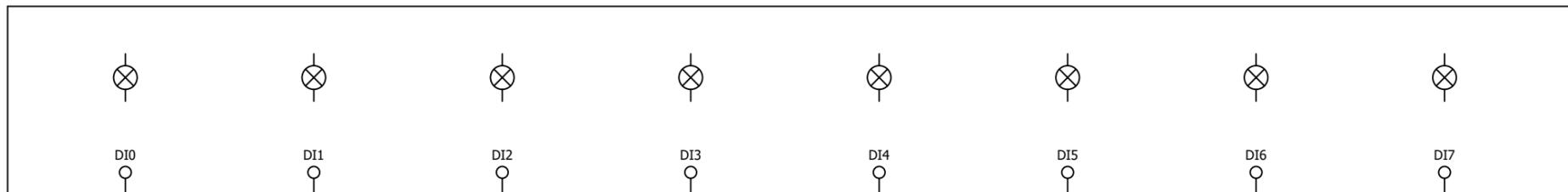


-78N1  
/65.6  
/79.1  
/62.0

**DS-C-DI8DO8T**  
Digital Ein- / Ausgangsmodul 8 x DI / 8 x DO

Teil 1 von 2

digital inputs 24V DC



78N1-DI0  
44.6

78N1-DI1  
44.5

78N1-DI2  
38.7

-18K1  
/18.9

42  
41

44

73.8 / L5 24V+ →

→ L5 24V+ /

77.8 / 24V- →

→ 24V- / 79.0

operation  
heatpump 2  
lobby

fault  
heatpump 2  
lobby

fault  
gas detector  
lobby

fault  
fire dampers

reserve

reserve

reserve

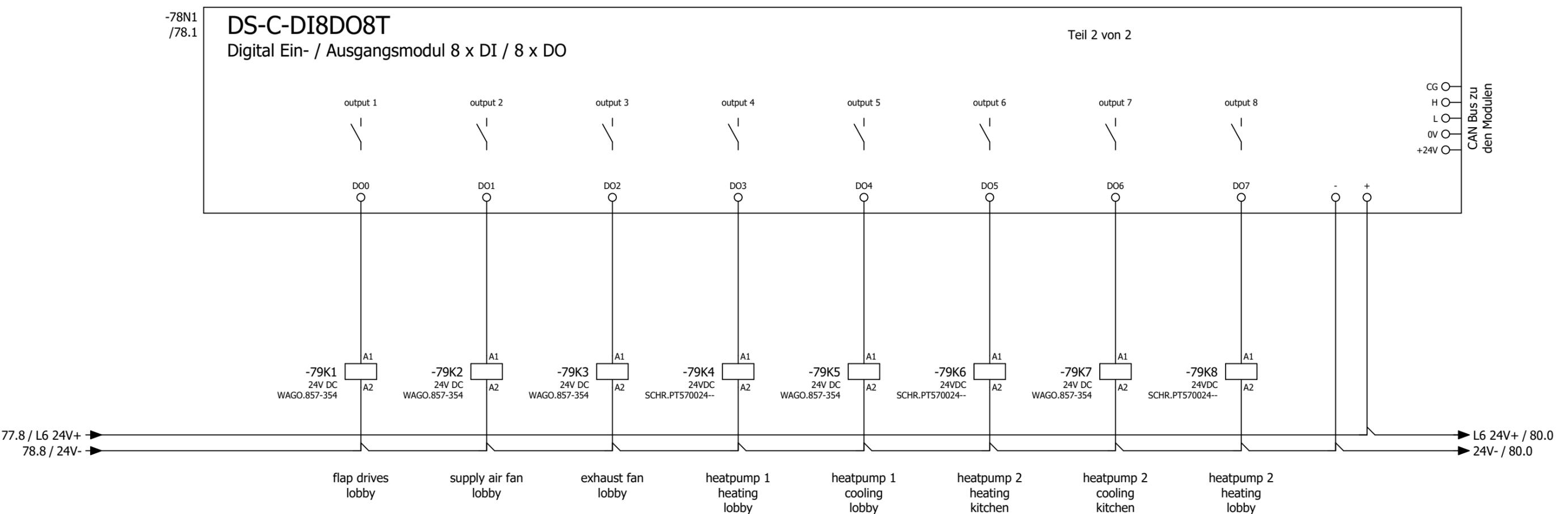
reserve

		date		16.09.2025	Mc Donald´s DK - Rødovre				= RLT_1	
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		checked		M. Wagner	ventilation				page 78	
change	date	name	origin		replacement for	replaced by			custom no: 7559	4614a
									page 52/ 58	

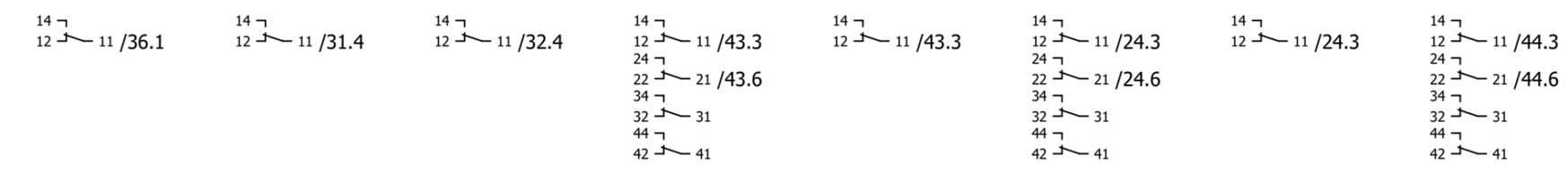


DDC - digital inputs 8 x DI

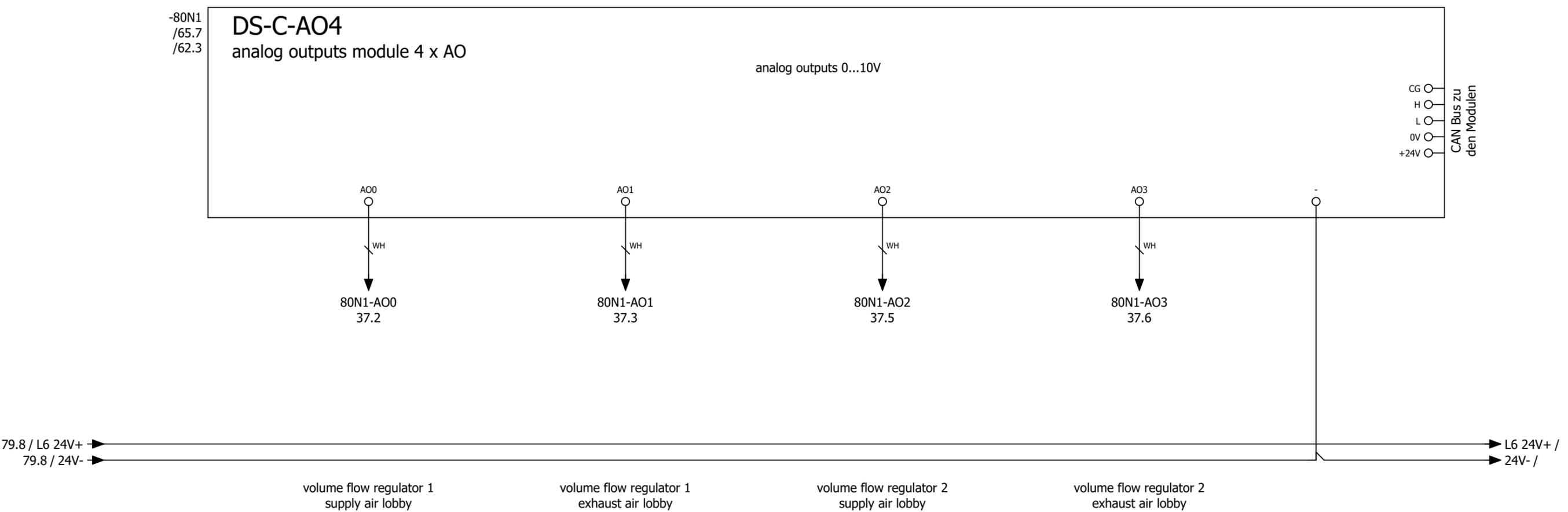
custom no: 7559 4614a



77.8 / L6 24V+  
78.8 / 24V-  
L6 24V+ / 80.0  
24V- / 80.0



				date	10.09.2025	Mc Donald´s DK - Rødovre ventilation			DDC - digital outputs 8 x DO		= RLT_1			
				edited	daniel.preuss				page		79		+	
				checked	M. Wagner				page		53 / 58		custom no: 7559 4614a	
change	date	name	origin	replaced for	replaced by									



				date	10.09.2025	Mc Donald´s DK - Rødovre						= RLT_1
				edited	daniel.preuss	ventilation		DDC - analog outputs 4 x AO				page <b>80</b>
				checked	M. Wagner							
change	date	name	origin	replaced for	replaced by			custom no: 7559	<b>4614a</b>			page <b>54/ 58</b>

# Kabelübersicht

F10\_001

Kabelname	Quelle (von)	Ziel (bis)	Kabeltyp	alle Adern	verwendete Adern	Querschnitt [mm]	Länge [m]	Funktionstext	Grafikseite des Kabelplans
W-9A1	X3	9A1	J-Y(ST)Y	4x2	5	0,8		fire emergency shutdown	
W-11M1/1	X1		OELFLEX 110	4G	4	1,5		supply air fan kitchen	
		11Q1							
W-11M1/2	X3	11M1	OELFLEX 110	4	4	1		supply air fan kitchen	
W-11M1/3	X4	11M1	LIYCY	2	2	0,5		=	
W-11Q1	X3	11Q1	OELFLEX 110	2	2	1		repair switch supply air fan kitchen	
W-13M1/1	X1	13M1	OELFLEX 110	4G	4	1,5		exhaust fan kitchen	
		13Q1							
W-13M1/2	X3	13M1	OELFLEX 110	4	2	1		exhaust fan kitchen	
W-13M1/3	X4	13M1	LIYCY	4	3	0,5		=	
W-13Q1	X3	13Q1	OELFLEX 110	2	2	1		repair switch exhaust fan kitchen	
W-14M1/1	X1	14M1	OELFLEX 110	3G	3	1,5		exhaust fan dishes	
		14Q1							
W-14M1/2	X3	14M1	OELFLEX 110	2	2	1		exhaust fan dishes	
W-14Q1	X3	14Q1	OELFLEX 110	2	2	1		repair switch exhaust fan dishes	
W-16Y1	X3	16Y1	OELFLEX 110	3	3	1		outside air damper kitchen	
W-16Y2	X3	16Y2	OELFLEX 110	3	3	1		exhaust air flap kitchen (option)	
W-17Y1	X3.B	17Y1	OELFLEX 110	4	4	1		fire damper 1	
W-17Y2	X3.B	17Y2	OELFLEX 110	4	4	1		fire damper 2	
W-17Y3	X3.B	17Y3	OELFLEX 110	4	4	1		fire damper 3	
W-17Y4	X3.B	17Y4	OELFLEX 110	4	4	1		fire damper 4	
W-17Y5	X3.B	17Y5	OELFLEX 110	4	4	1		fire damper 5	
W-18Y1	X3.B	18Y1	OELFLEX 110	4	4	1		fire damper 6	
W-18Y2	X3.B	18Y2	OELFLEX 110	4	4	1		fire damper 7	
W-18Y3	X3.B	18Y3	OELFLEX 110	4	4	1		fire damper 8	
W-18Y4	X3.B	18Y4	OELFLEX 110	4	4	1		fire damper 9	
W-18Y5	X3.B	18Y5	OELFLEX 110	4	4	1		fire damper 10	
W-18Y6	X3.B	18Y6	OELFLEX 110	4	4	1		fire damper 11	
W-19B1	X3	19B1	OELFLEX 110	4	4	1		antifreeze thermostat	
W-20M1	X1	20M1	OELFLEX 110	3G	3	1,5		heating pump kitchen	
W-20Y1	X4	20Y1	LIYCY	4	4	1		heater valve kitchen	
W-21A1/1	X1	21A1	OELFLEX 110	5G	5	2,5		heatpump 1 kitchen outdoor unit	
W-21A1/2	X6	21A1	LIYCY	4	4	1		=	
	X7								
W-21A2/1	X1	21A2	OELFLEX	3G	3	1,5		heatpump 1 kitchen indoor unit	
W-22A1/1	X1	22A1	OELFLEX 110	5G	5	2,5		heatpump 2 kitchen outdoor unit	
W-22A1/2	X6	22A1	LIYCY	4	4	1		=	
	X7								
W-22A2/1	X1	22A2	OELFLEX	3G	3	1,5		heatpump 2 kitchen indoor unit	
W-21A2/2	X3	21A2	LIYCY	12	12	0,5		heatpump 1 kitchen indoor unit	
	X4								
	X6								
W-21A2/3	X2	21A2	OELFLEX	3G	3	1,5		heatpump 1 kitchen indoor unit	
W-22A2/2	X3	22A2	LIYCY	12	12	0,5		heatpump 2 kitchen indoor unit	
	X4								
	X6								

=RLT\_1/80

1.a

		Datum	16.09.2025	Mc Donald´s DK - Rødovre			cable overview : W-9A1 - W-22A2/2		= KBL	Blatt <b>1</b>
		Bearb.	daniel.preuss	ventilation					+	
		Gepr	M. Wagner							
Änderung	Datum	Name	Urspr	Ersatz von	Ersetzt durch		custom no: 7559	<b>4614a</b>	Blatt <b>55/ 58</b>	

# Kabelübersicht

F10\_001

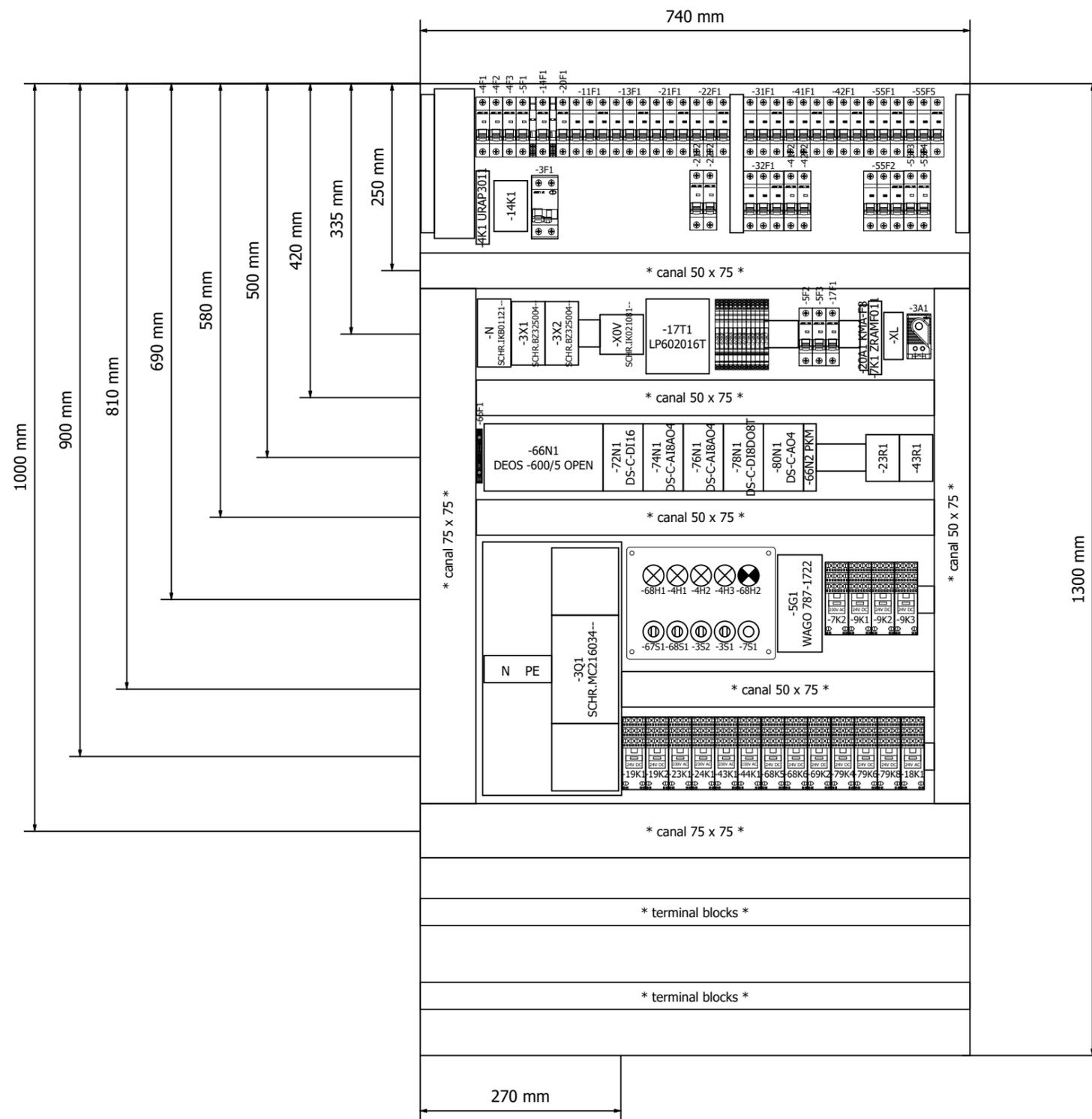
Kabelname	Quelle (von)	Ziel (bis)	Kabeltyp	alle Adern	verwendete Adern	Querschnitt [mm]	Länge [m]	Funktionstext	Grafikseite des Kabelplans
W-22A2/3	X2	22A2	OELFLEX	3G	3	1,5		heatpump 2 kitchen indoor unit	
W-31M1/1	X1		OELFLEX 110	4G	4	1,5		supply air fan lobby	
		31Q1							
W-31M1/2	X3	31M1	OELFLEX 110	4	4	1		supply air fan lobby	
W-31M1/3	X4	31M1	LIYCY	2	2	0,5		=	
W-31Q1	X3	31Q1	OELFLEX 110	2	2	1		repair switch supply air fan lobby	
W-32M1/1	X1		OELFLEX 110	4G	4	1,5		exhaust fan lobby	
		32Q1							
W-32M1/2	X3	32M1	OELFLEX 110	4	4	1		exhaust fan lobby	
W-32M1/3	X4	32M1	LIYCY	2	2	0,5		=	
W-32Q1	X3	32Q1	OELFLEX 110	2	2	1		repair switch exhaust fan lobby	
W-36Y1	X3	36Y1	OELFLEX 110	3	3	1		outside air damper lobby	
W-36Y2	X3	36Y2	OELFLEX 110	3	3	1		exhaust air flap lobby	
W-36Y3	X4	36Y3	LIYCY	4	4	1		actuator plate heat exchanger lobby	
W-37Y1	X4	37Y1	LIYCY	4	4	1		volume flow regulator 1 supply air lobby	
W-37Y2	X4	37Y2	LIYCY	4	4	1		volume flow regulator 1 exhaust air lobby	
W-37Y3	X4	37Y3	LIYCY	4	4	1		volume flow regulator 2 supply air lobby	
W-37Y4	X4	37Y4	LIYCY	4	4	1		volume flow regulator 2 exhaust air lobby	
W-38A1	X3	38A1	OELFLEX 110	4	4	1		gas detector kitchen	
W-38A2	X3	38A2	OELFLEX 110	4	4	1		gas detector lobby	
W-41A1/1	X1	41A1	OELFLEX 110	5G	5	2,5		heatpump 1 lobby outdoor unit	
W-41A1/2	X6	41A1	LIYCY	4	4	1		=	
	X7								
W-41A2/1	X1	41A2	OELFLEX	3G	3	1,5		heatpump 1 lobby indoor unit	
W-42A1/1	X1	42A1	OELFLEX 110	5G	5	2,5		heatpump 2 lobby outdoor unit	
W-42A1/2	X6	42A1	LIYCY	4	4	1		=	
	X7								
W-42A2/1	X1	42A2	OELFLEX	3G	3	1,5		heatpump 2 lobby indoor unit	
W-41A2/2	X3	41A2	LIYCY	12	12	0,5		heatpump 1 lobby indoor unit	
	X4								
	X6								
W-41A2/3	X2	41A2	OELFLEX	3G	3	1,5		heatpump 1 lobby indoor unit	
W-42A2/2	X3	42A2	LIYCY	12	12	0,5		heatpump 2 lobby indoor unit	
	X4								
	X6								
W-42A2/3	X2	42A2	OELFLEX	3G	3	1,5		heatpump 2 lobby indoor unit	
W-51A1	X7	51A1	OELFLEX	3G	3	1,5		release kitchen ware	
W-55M1	X1	55M1	OELFLEX 110	4G	4	2,5		air cooling device BC+ backroom	
W-55M2	X1	55M2	OELFLEX 110	4G	4	2,5		air cooling device kitchen	
W-55M3	X1	55M3	OELFLEX 110	3G	3	1,5		air cooling device technical room	
W-55M4	X1	55M4	OELFLEX 110	3G	3	1,5		air cooling device playground	
W-55M5	X1	55M5	OELFLEX 110	4G	4	2,5		air cooling device lobby	
W-66A1	X3	66A1	J-Y(ST)Y	4x2	6	0,8		operating panel	
W-71B1	X4	71B1	LIYCY-TP	4	4	0,5		differential pressure sensor supply air kitchen	
W-71B4	X4	71B4	OELFLEX 110	2	2	1		outside temperature sensor kitchen	
W-71B5	X4	71B5	LIYCY-TP	4	4	0,5		supply air temperature sensor behind heater kitchen	

1

1.b

			Datum	16.09.2025	Mc Donald´s DK - Rødovre			cable overview : W-22A2/3 - W-71B5		= KBL	Blatt <b>1.a</b>
			Bearb.	daniel.preuss	ventilation					+	
			Gepr	M. Wagner							
Änderung	Datum	Name	Urspr		Ersatz von	Ersetzt durch		custom no: 7559	<b>4614a</b>		Blatt <b>56/ 58</b>





=KBL/1.b

			date	16.09.2025	Mc Donald´s DK - Rødovre			cabinet view	= SSA	
			edited	daniel.preuss	ventilation				+ page 1	
			checked	M. Wagner					page 58/ 58	
change	date	name	origin		replacement for	replaced by		custom no: 7559	4614a	